

Assay Class: High Sensitivity DNA Assay  
Data Path: C:\...ents and Settings\Bioanalyzer\2016-01-19\2016-01-19\_004.xad

Created: 1/19/2016 3:34:33 PM  
Modified: 1/19/2016 4:22:16 PM

**Electrophoresis File Run Summary**

Instrument Information:

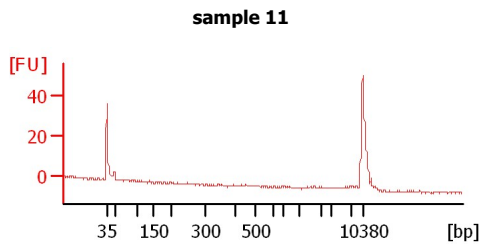
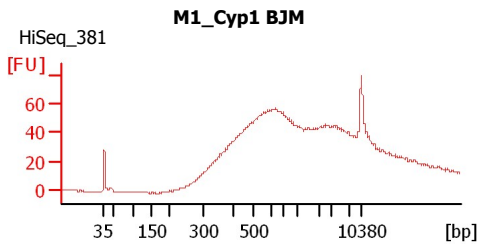
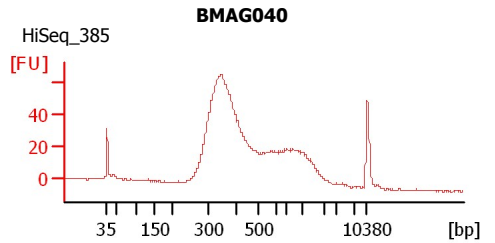
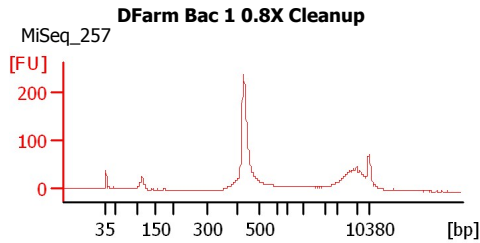
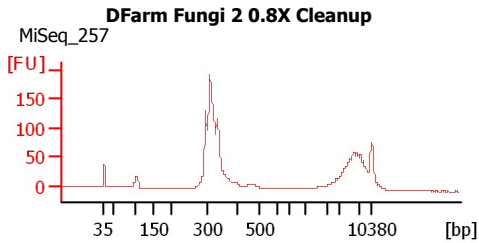
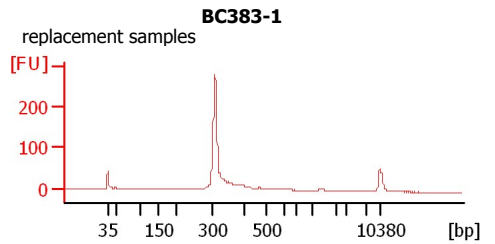
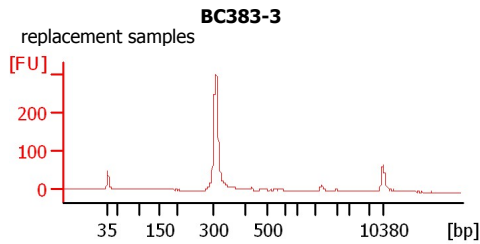
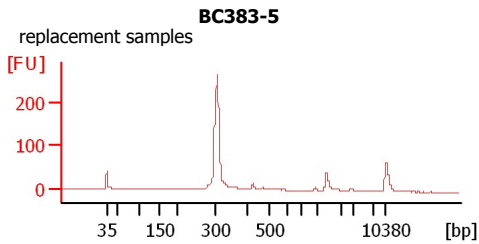
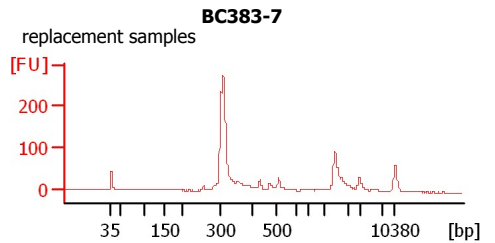
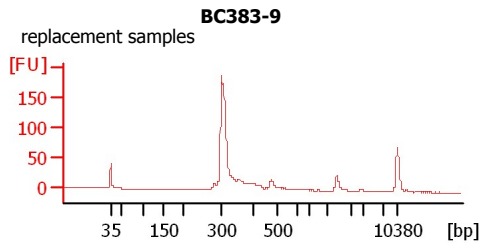
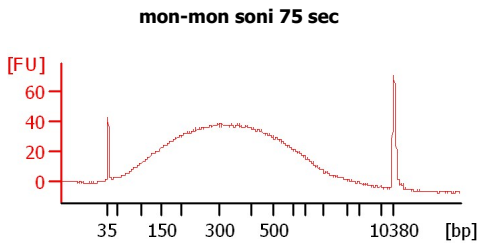
Instrument Name: DE13701086      Firmware: C.01.069  
Serial#: DE13701086      Type: G2938B

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:



Assay Class: High Sensitivity DNA Assay  
Data Path: C:\...ents and Settings\Bioanalyzer\2016-01-19\2016-01-19\_004.xad

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

Sample Name	Sample Comment	Rest. Digest	Status	Observation	Result Label	Result Color
mon-mon soni 75 sec		<input type="checkbox"/>	✓			
BC383-9	replacement samples	<input type="checkbox"/>	✓			
BC383-7	replacement samples	<input type="checkbox"/>	✓			
BC383-5	replacement samples	<input type="checkbox"/>	✓			
BC383-3	replacement samples	<input type="checkbox"/>	✓			
BC383-1	replacement samples	<input type="checkbox"/>	✓			
DFarm Fungi 2 0.8X Cleanup	MiSeq_257	<input type="checkbox"/>	✓			
DFarm Bac 1 0.8X Cleanup	MiSeq_257	<input type="checkbox"/>	✓			
BMAG040	HiSeq_385	<input type="checkbox"/>	✓			
M1_Cyp1 BJM	HiSeq_381	<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/ $\mu$ l] : 1950  
Uses Standard Area for Ladder Fragments  
Lower Marker Concentration [pg/ $\mu$ l] : 125  
Upper Marker Concentration [pg/ $\mu$ l] : 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

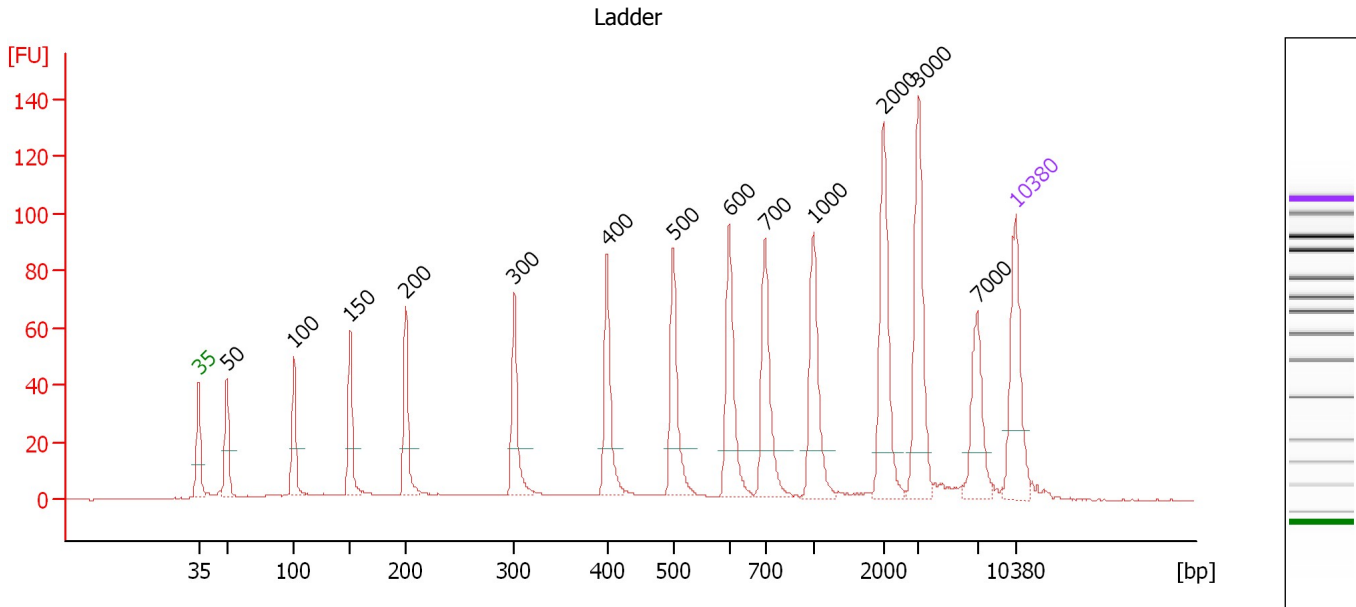
**Ladder**

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

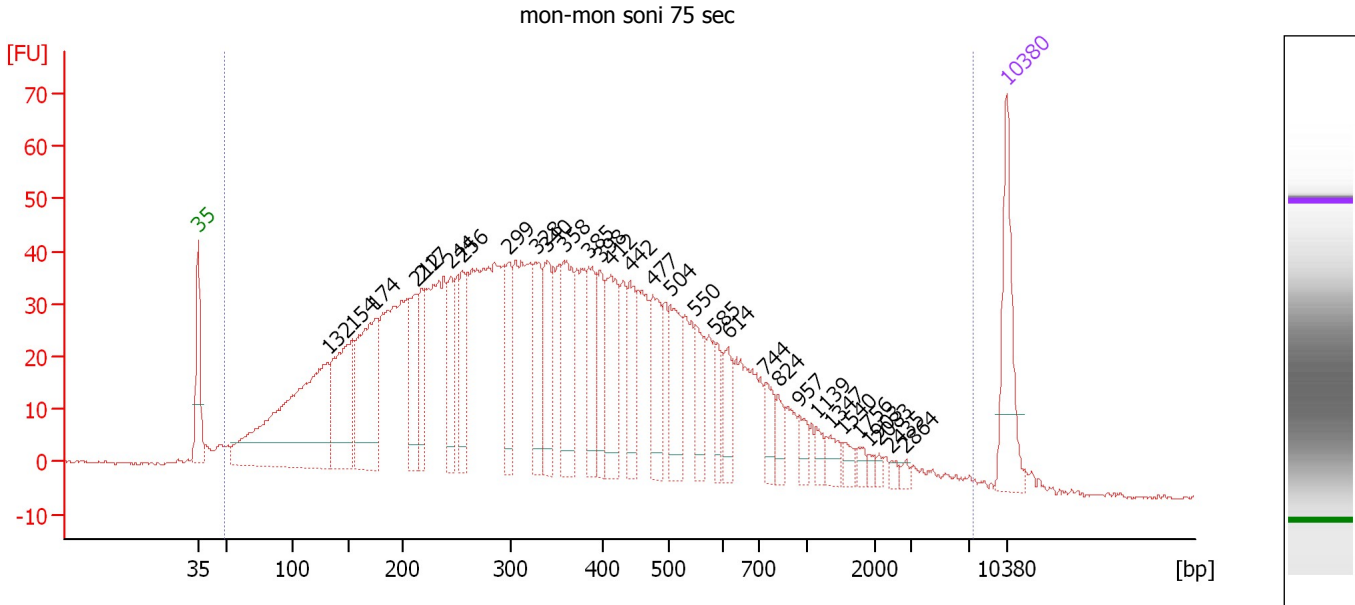
**Peak table for Ladder**

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	51.18
4	150	150.00	1,515.2	Ladder Peak	55.98
5	200	150.00	1,136.4	Ladder Peak	60.73
6	300	150.00	757.6	Ladder Peak	70.05
7	400	150.00	568.2	Ladder Peak	78.00
8	500	150.00	454.5	Ladder Peak	83.67
9	600	150.00	378.8	Ladder Peak	88.46
10	700	150.00	324.7	Ladder Peak	91.52
11	1,000	150.00	227.3	Ladder Peak	95.68
12	2,000	150.00	113.6	Ladder Peak	101.67
13	3,000	150.00	75.8	Ladder Peak	104.68
14	7,000	150.00	32.5	Ladder Peak	109.71
15	10,380	75.00	10.9	Upper Marker	113.00

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**Electropherogram Summary Continued ...**



**Overall Results for sample 1 : mon-mon soni 75 sec**

Number of peaks found: 31                      Corr. Area 1: 2,157.6  
 Noise: 0.3

**Peak table for sample 1 : mon-mon soni 75 sec**

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	132	422.34	4,841.2		54.27
3	154	179.96	1,772.1		56.34
4	174	200.92	1,746.8		58.28
5	212	82.01	585.0		61.89
6	217	67.96	473.7		62.35
7	244	67.60	419.5		64.84
8	256	78.30	464.3		65.90
9	299	78.83	400.0		69.92
10	328	78.70	363.5		72.27
11	340	80.66	359.2		73.24
12	358	107.40	454.3		74.68
13	385	83.62	329.2		76.80
14	398	53.00	201.9		77.82
15	412	95.00	349.2		78.69
16	442	62.16	212.9		80.40
17	477	72.52	230.2		82.39
18	504	69.46	208.7		83.86
19	550	47.74	131.4		86.08
20	585	28.71	74.4		87.74
21	614	36.35	89.7		88.90
22	744	29.38	59.9		92.13
23	824	20.82	38.3		93.24
24	957	17.53	27.8		95.08
25	1,139	12.46	16.6		96.52

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**Electropherogram Summary Continued ...**

**... Peak table for sample 1 : mon-mon soni 75 sec**

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations	Aligned Migration Time [s]
26	1,347	15.36	17.3		97.76
27	1,540	10.72	10.5		98.92
28	1,756	8.68	7.5		100.21
29	1,903	5.11	4.1		101.09
30	2,083	4.32	3.1		101.92
31	2,435	4.80	3.0		102.98
32	2,864	5.01	2.6		104.27
33	10,380	75.00	10.9	Upper Marker	113.00

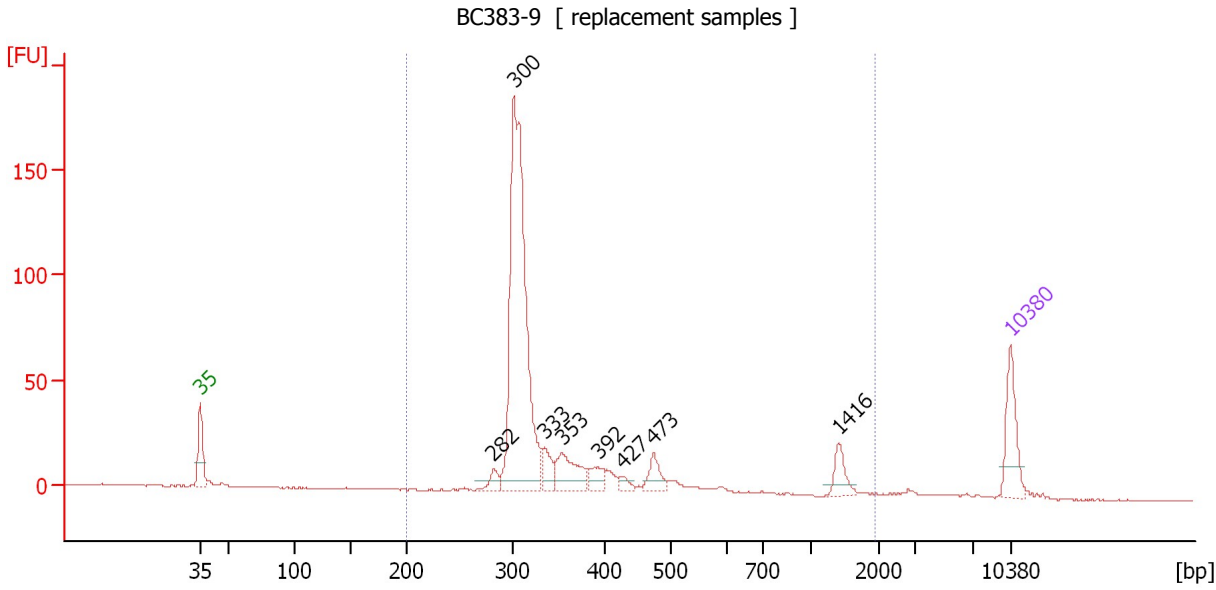
**Region table for sample 1 : mon-mon soni 75 sec**

From [bp]	To [bp]	Average Size [bp]	Corr. Area	Molarity [pmol/l]	Co Conc. lor [pg/μl]	% of Total	Size distribution in CV [%]
49	7,422	463	2,157.6	25,805.8	3,937.00	99	100.0

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**Electropherogram Summary Continued ...**



**Overall Results for sample 2 : BC383-9**

Number of peaks found: 8                      Corr. Area 1: 657.6  
 Noise: 0.2

**Peak table for sample 2 : BC383-9**

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	282	26.74	143.9		68.33
3	300	812.00	4,096.0		70.08
4	333	45.83	208.3		72.70
5	353	93.46	401.7		74.22
6	392	34.91	135.0		77.36
7	427	15.76	55.9		79.52
8	473	42.95	137.5		82.14
9	1,416	36.90	39.5		98.17
10	10,380	75.00	10.9	Upper Marker	113.00

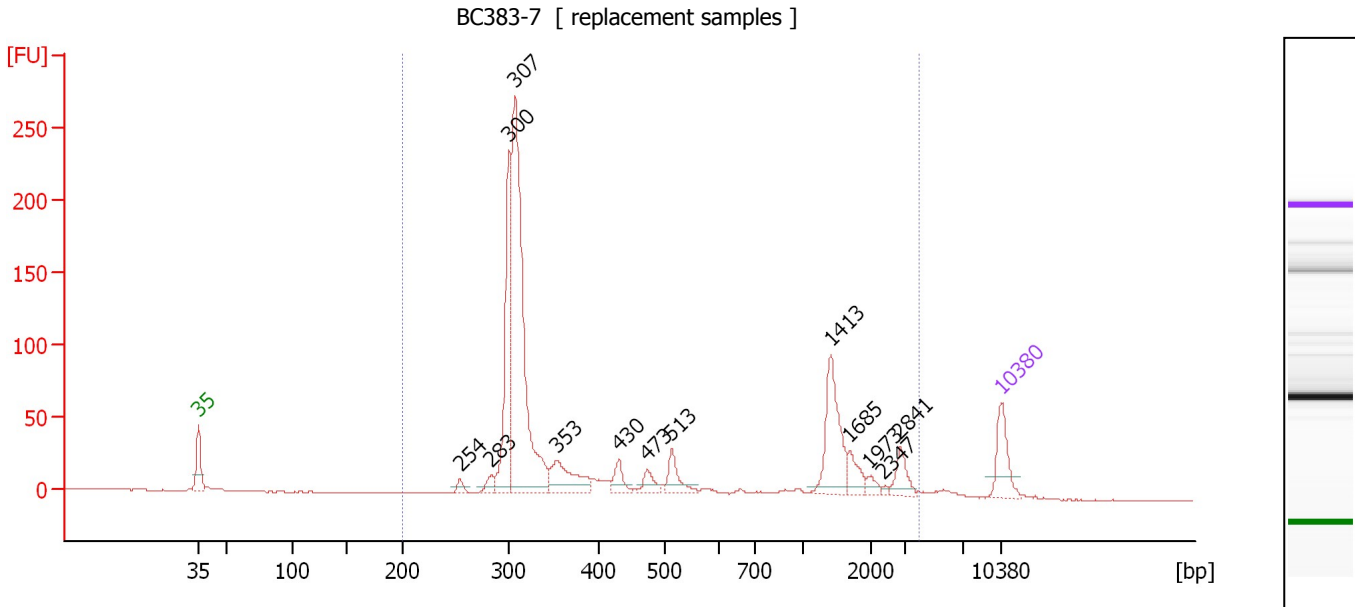
**Region table for sample 2 : BC383-9**

From [bp]	To [bp]	Average Size [bp]	Corr. Area	Molarity [pmol/l]	Co Conc. lor [pg/μl]	% of Total	Size distribution in CV [%]
200	1,931	410	657.6	5,333.1	1,189.03	97	67.5

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**Electropherogram Summary Continued ...**



**Overall Results for sample 3 : BC383-7**

Number of peaks found: 13                      Corr. Area 1: 1,175.4  
 Noise: 0.2

**Peak table for sample 3 : BC383-7**

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	254	18.94	112.8		65.81
3	283	26.26	140.6		68.46
4	300	375.04	1,891.1		70.09
5	307	848.18	4,187.1		70.60
6	353	126.35	542.1		74.28
7	430	43.21	152.4		79.68
8	473	34.90	111.8		82.14
9	513	55.56	164.1		84.28
10	1,413	173.30	185.9		98.15
11	1,685	41.65	37.5		99.78
12	1,973	15.90	12.2		101.50
13	2,347	4.33	2.8		102.71
14	2,841	43.87	23.4		104.20
15	10,380	75.00	10.9	Upper Marker	113.00

**Region table for sample 3 : BC383-7**

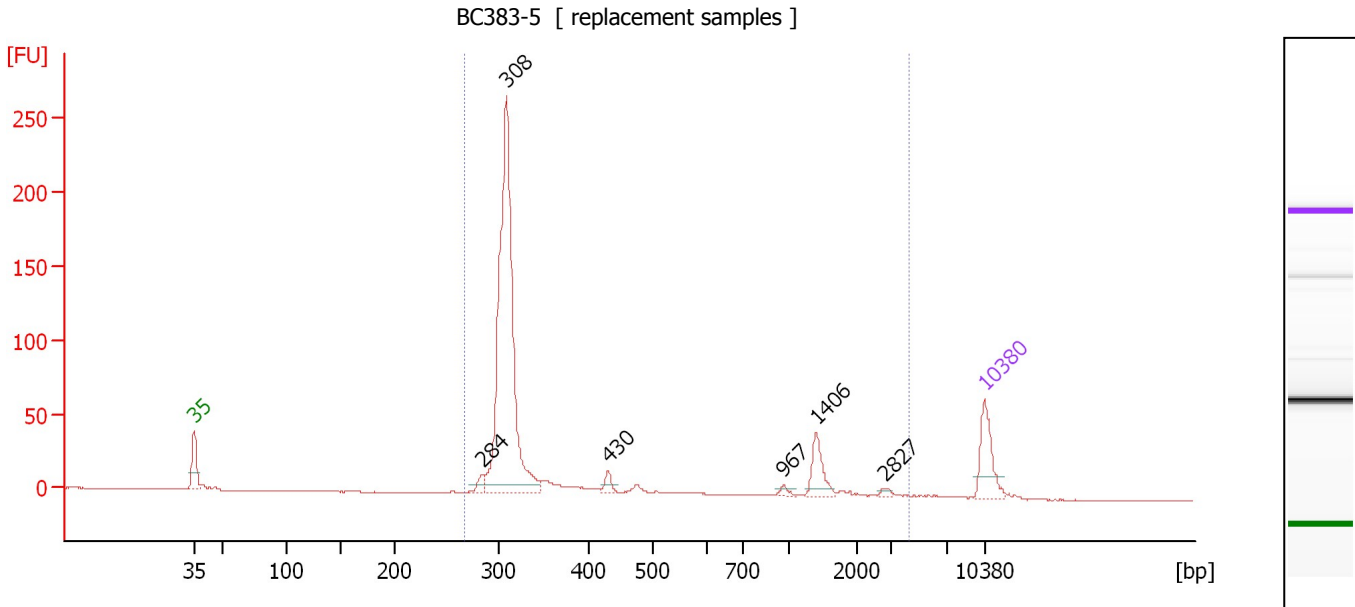
From [bp]	To [bp]	Average Size [bp]	Corr. Area	Molarity [pmol/l]	Co Conc. lor [pg/μl]	% of Total	Size distribution in CV [%]
200	3,921	740	1,175.4	7,752.4	1,941.25	98	96.7



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**Electropherogram Summary Continued ...**



**Overall Results for sample 4 : BC383-5**

Number of peaks found: 6                      Corr. Area 1: 692.5  
 Noise: 0.1

**Peak table for sample 4 : BC383-5**

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	284	19.94	106.5		68.52
3	308	900.23	4,435.0		70.65
4	430	17.62	62.1		79.68
5	967	7.56	11.8		95.23
6	1,406	58.27	62.8		98.11
7	2,827	7.07	3.8		104.16
8	10,380	75.00	10.9	Upper Marker	113.00

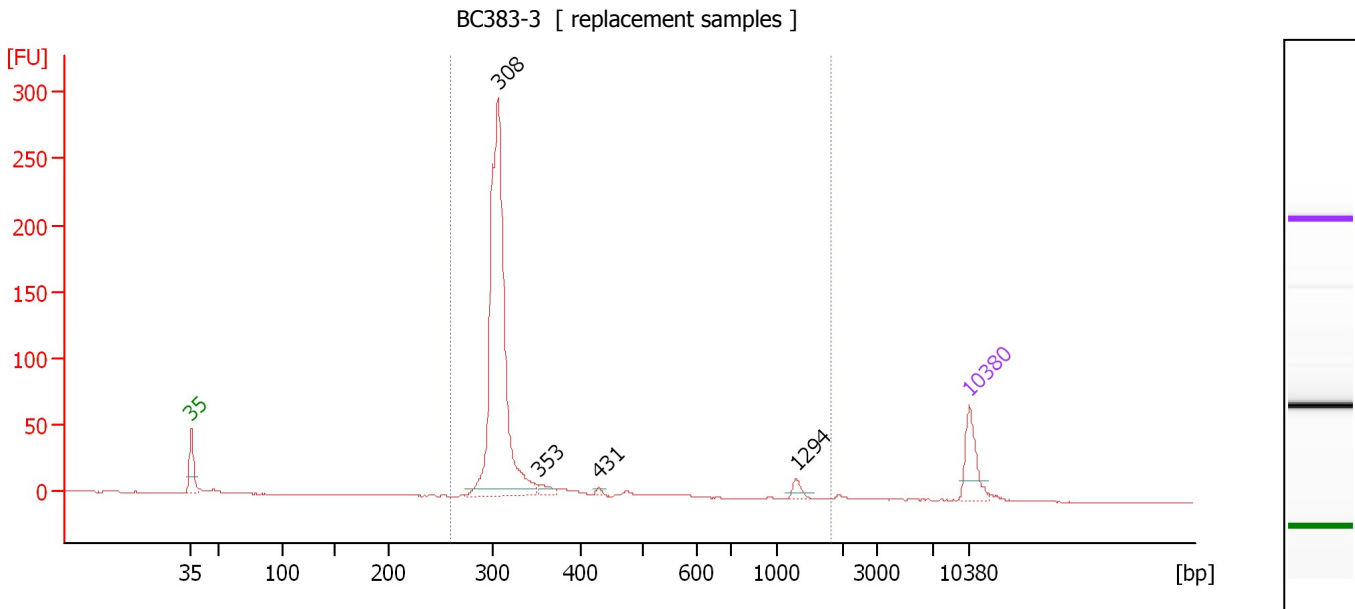
**Region table for sample 4 : BC383-5**

From [bp]	To [bp]	Average Size [bp]	Corr. Area	Molarity [pmol/l]	Co Conc. lor [pg/μl]	% of Total	Size distribution in CV [%]
267	4,376	513	692.5	5,044.9	1,124.81	98	100.0

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**Electropherogram Summary Continued ...**



**Overall Results for sample 5 : BC383-3**

Number of peaks found: 4                      Corr. Area 1: 709.7  
 Noise: 0.1

**Peak table for sample 5 : BC383-3**

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	308	1,073.55	5,287.9		70.65
3	353	25.39	109.0		74.26
4	431	6.89	24.2		79.73
5	1,294	18.45	21.6		97.44
6	10,380	75.00	10.9	Upper Marker	113.00

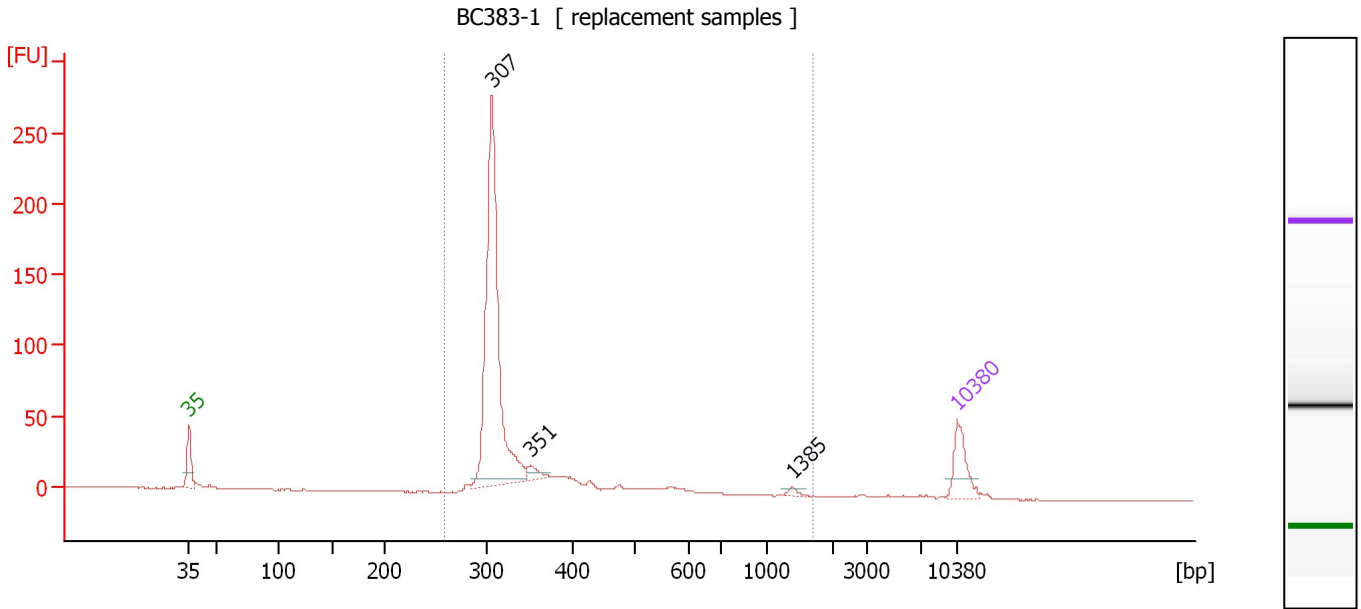
**Region table for sample 5 : BC383-3**

From [bp]	To [bp]	Average Size [bp]	Corr. Area	Molarity [pmol/l]	Co Conc. lor [pg/μl]	% of Total	Size distribution in CV [%]
260	1,824	348	709.7	5,595.3	1,177.19	97	49.2

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**Electropherogram Summary Continued ...**



**Overall Results for sample 6 : BC383-1**

Number of peaks found: 3                      Corr. Area 1: 689.3  
 Noise: 0.2

**Peak table for sample 6 : BC383-1**

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	307	935.64	4,620.4		70.59
3	351	27.87	120.2		74.14
4	1,385	8.68	9.5		97.99
5	10,380	75.00	10.9	Upper Marker	113.00

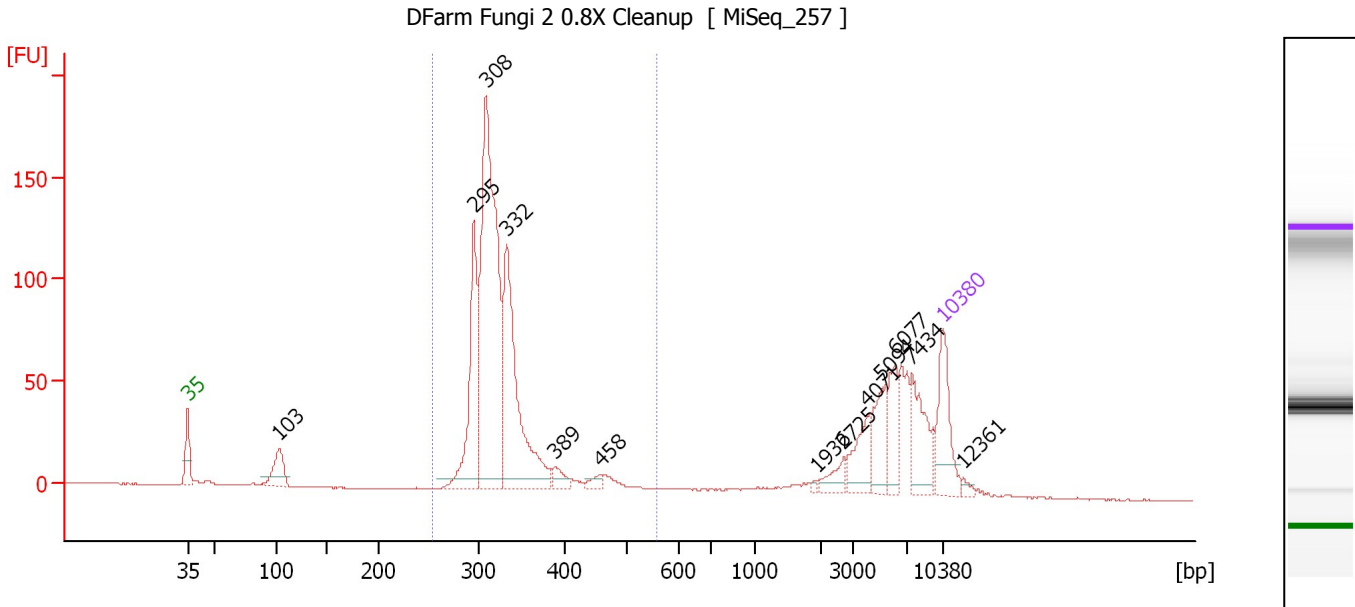
**Region table for sample 6 : BC383-1**

From [bp]	To [bp]	Average Size [bp]	Corr. Area	Molarity [pmol/l]	Co Conc. lor [pg/μl]	% of Total	Size distribution in CV [%]
259	1,703	351	689.3	5,785.6	1,253.88	98	38.6

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**Electropherogram Summary Continued ...**



**Overall Results for sample 7 : DFarm Fungi 2 0.8X Cleanup**

Number of peaks found: 13                      Corr. Area 1: 921.8  
 Noise: 0.2

**Peak table for sample 7 : DFarm Fungi 2 0.8X Cleanup**

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	103	66.49	974.5		51.50
3	295	207.08	1,065.0		69.55
4	308	562.16	2,765.7		70.68
5	332	321.12	1,467.2		72.56
6	389	21.64	84.3		77.11
7	458	12.16	40.2		81.31
8	1,936	2.90	2.3		101.28
9	2,725	21.20	11.8		103.85
10	4,071	48.35	18.0		106.03
11	5,094	55.06	16.4		107.31
12	6,077	53.14	13.2		108.55
13	7,434	73.20	14.9		110.13
14	10,380	75.00	10.9	Upper Marker	113.00
15	12,361	0.00	0.0		114.93

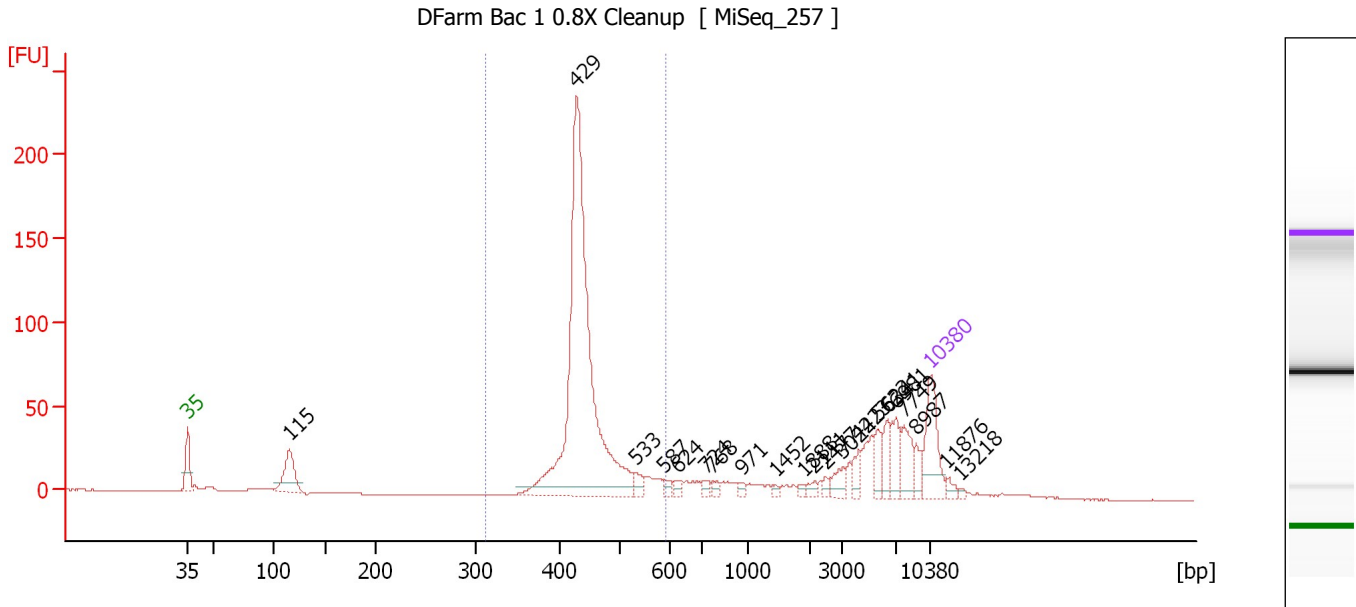
**Region table for sample 7 : DFarm Fungi 2 0.8X Cleanup**

From [bp]	To [bp]	Average Size [bp]	Corr. Area	Molarity [pmol/l]	Co Conc. lor [pg/μl]	% of Total	Size distribution in CV [%]
254	558	327	921.8	5,394.6	1,149.18	67	12.1

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**Electropherogram Summary Continued ...**



**Overall Results for sample 8 : DFarm Bac 1 0.8X Cleanup**

Number of peaks found: 21                      Corr. Area 1: 676.1  
 Noise: 0.2

**Peak table for sample 8 : DFarm Bac 1 0.8X Cleanup**

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	115	94.12	1,243.1		52.59
3	429	828.60	2,924.8		79.66
4	533	17.46	49.7		85.23
5	587	9.96	25.7		87.84
6	624	9.02	21.9		89.20
7	724	8.32	17.4		91.86
8	768	9.04	17.9		92.46
9	971	6.85	10.7		95.27
10	1,452	5.04	5.3		98.39
11	1,888	5.21	4.2		101.00
12	2,111	8.38	6.0		102.00
13	2,477	7.55	4.6		103.11
14	3,024	20.64	10.3		104.71
15	4,223	20.58	7.4		106.22
16	5,622	24.74	6.7		107.98
17	6,341	33.26	7.9		108.88
18	6,981	38.23	8.3		109.69
19	7,749	42.02	8.2		110.44
20	8,987	20.23	3.4		111.64
21	10,380	75.00	10.9	Upper Marker	113.00
22	11,876	0.00	0.0		114.46
23	13,218	0.00	0.0		115.76

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**Electropherogram Summary Continued ...**

... Region table for sample 8 :

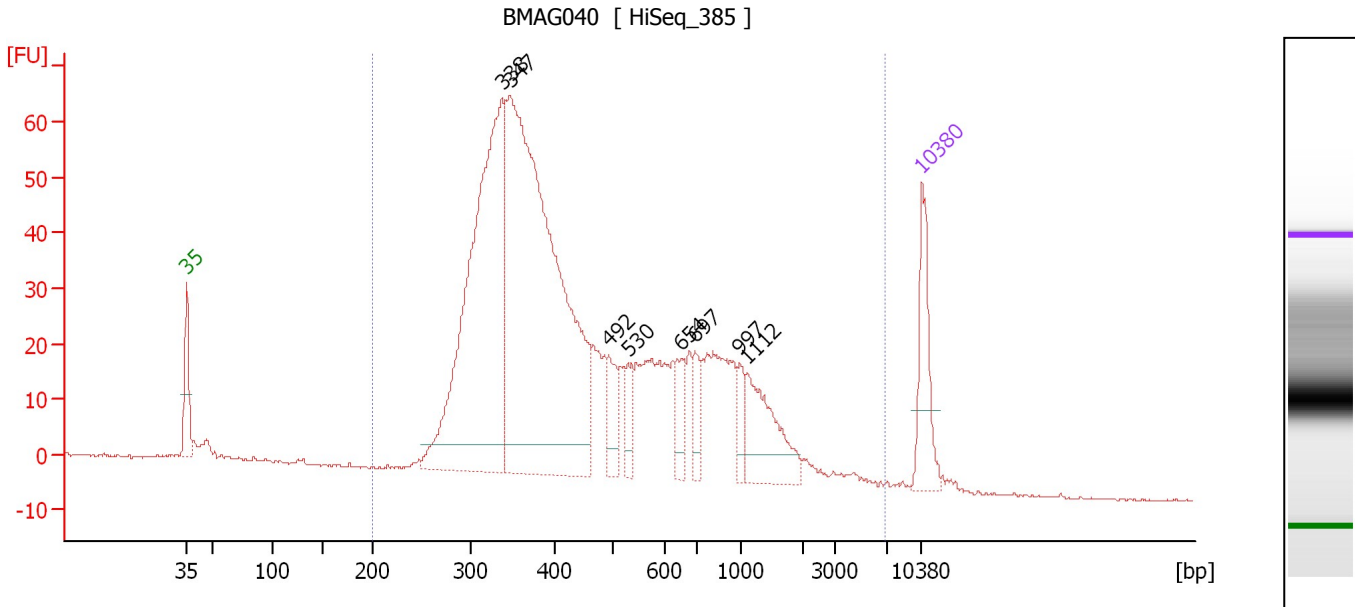
**DFarm Bac 1 0.8X Cleanup**

From [bp]	To [bp]	Average Size [bp]	Corr. Area	Molarity [pmol/l]	Co Conc. lor [pg/μl]	% of Total	Size distribution in CV [%]
314	591	446	676.1	2,970.5	867.62	58	8.8

Assay Class: High Sensitivity DNA Assay  
 Data Path: C:\...ents and Settings\Bioanalyzer\2016-01-19\2016-01-19\_004.xad

Created: 1/19/2016 3:34:33 PM  
 Modified: 1/19/2016 4:22:16 PM

**Electropherogram Summary Continued ...**



**Overall Results for sample 9 : BMAG040**

Number of peaks found: 8                      Corr. Area 1: 1,254.2  
 Noise: 0.2

**Peak table for sample 9 : BMAG040**

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	338	722.93	3,243.1		73.05
3	347	1,038.88	4,531.9		73.81
4	492	46.86	144.4		83.20
5	530	34.32	98.2		85.08
6	654	40.08	92.9		90.11
7	697	37.39	81.3		91.43
8	997	30.52	46.4		95.64
9	1,112	107.71	146.8		96.35
10	10,380	75.00	10.9	Upper Marker	113.00

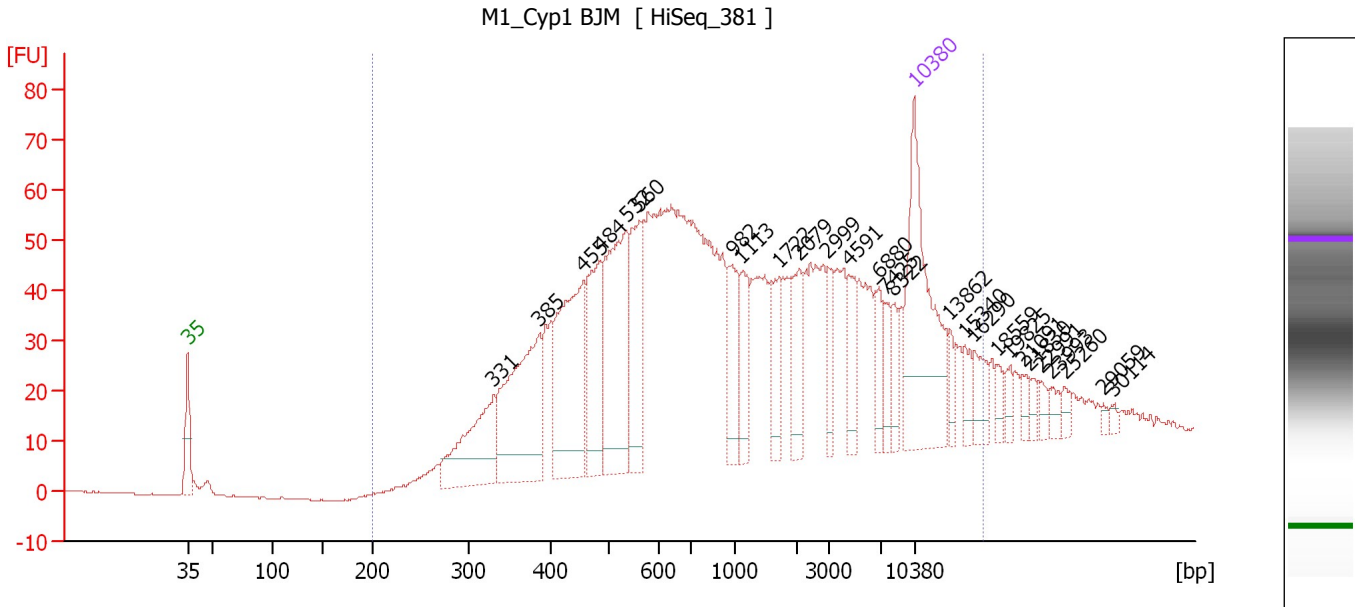
**Region table for sample 9 : BMAG040**

From [bp]	To [bp]	Average Size [bp]	Corr. Area	Molarity [pmol/l]	Co Conc. [pg/μl]	% of Total	Size distribution in CV [%]
200	6,893	566	1,254.2	9,299.5	2,519.62	98	86.4

Assay Class: High Sensitivity DNA Assay  
 Data Path: C:\...ents and Settings\Bioanalyzer\2016-01-19\2016-01-19\_004.xad

Created: 1/19/2016 3:34:33 PM  
 Modified: 1/19/2016 4:22:16 PM

**Electropherogram Summary Continued ...**



**Overall Results for sample 10 : M1\_Cyp1 BJM**

Number of peaks found: 27                      Corr. Area 1: 1,609.3  
 Noise: 0.2

**Peak table for sample 10 : M1\_Cyp1 BJM**

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	331	64.64	296.3		72.48
3	385	99.59	391.5		76.84
4	455	97.65	325.3		81.11
5	484	57.35	179.6		82.75
6	532	96.27	274.0		85.22
7	560	45.80	123.9		86.55
8	982	29.58	45.6		95.44
9	1,113	22.78	31.0		96.36
10	1,722	18.57	16.3		100.01
11	2,079	24.13	17.6		101.91
12	2,999	13.90	7.0		104.68
13	4,591	16.82	5.6		106.68
14	6,880	14.90	3.3		109.56
15	7,425	10.63	2.2		110.12
16	8,322	9.47	1.7		111.00
17	10,380	75.00	10.9	Upper Marker	113.00
18	13,862	0.00	0.0		116.39
19	15,340	0.00	0.0		117.83
20	16,290	0.00	0.0		118.75
21	18,559	0.00	0.0		120.96
22	19,825	0.00	0.0		122.19
23	21,091	0.00	0.0		123.43
24	21,830	0.00	0.0		124.14
25	22,991	0.00	0.0		125.27



Assay Class: High Sensitivity DNA Assay  
 Data Path: C:\...ents and Settings\Bioanalyzer\2016-01-19\2016-01-19\_004.xad

Created: 1/19/2016 3:34:33 PM  
 Modified: 1/19/2016 4:22:16 PM

### Electropherogram Summary Continued ...

#### ... Peak table for sample 10 : M1\_Cyp1\_BJM

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations	Aligned Migration Time [s]
26	23,993	0.00	0.0		126.25
27	25,260	0.00	0.0		127.48
28	29,059	0.00	0.0		131.18
29	30,114	0.00	0.0		132.21

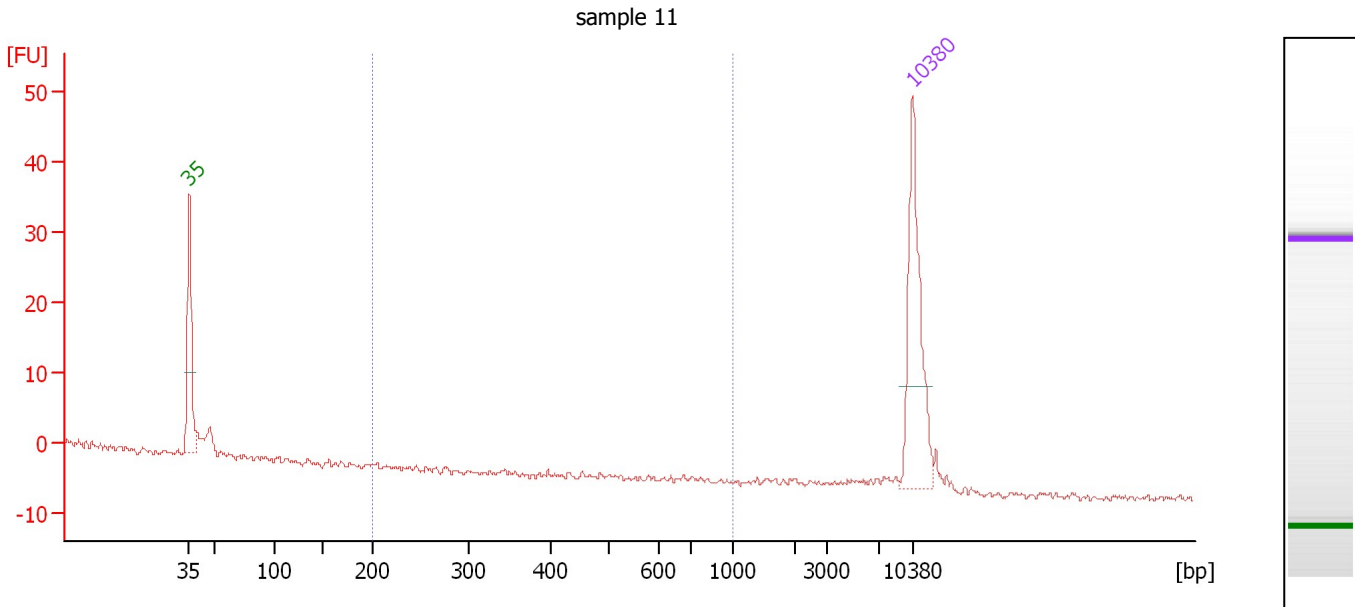
#### Region table for sample 10 : M1\_Cyp1\_BJM

From [bp]	To [bp]	Average Size [bp]	Corr. Area	Molarity [pmol/l]	Co Conc. lor [pg/μl]	% of Total	Size distribution in CV [%]
200	17,142	3,081	1,609.3	2,440.1	1,065.98	93	100.0

Assay Class: High Sensitivity DNA Assay  
 Data Path: C:\...ents and Settings\Bioanalyzer\2016-01-19\2016-01-19\_004.xad

Created: 1/19/2016 3:34:33 PM  
 Modified: 1/19/2016 4:22:16 PM

**Electropherogram Summary Continued ...**



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

Number of peaks found: 0                      Corr. Area 1: 0.0  
 Noise: 0.4

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

Pea k	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	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	Molarity [pmol/l]	Co Conc. lor [pg/μl]	% of Total	Size distribution in CV [%]
200	1,000	0	0.0	0.0	0.00	0	0.0

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Assay Class: High Sensitivity DNA Assay  
Data Path: C:\...ents and Settings\Bioanalyzer\2016-01-19\2016-01-19\_004.xad

Created: 1/19/2016 3:34:33 PM  
Modified: 1/19/2016 4:22:16 PM

**Gel Image**

Assay Class: High Sensitivity DNA Assay  
 Data Path: C:\...ents and Settings\Bioanalyzer\2016-01-19\2016-01-19\_004.xad

Created: 1/19/2016 3:34:33 PM  
 Modified: 1/19/2016 4:22:16 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		1/19/2016 4:15:53 PM	(GMT --08:00) Pacific Standard Time	UC Davis	D8XSMGH1
Run started on port 1 (File: C:\Documents and Settings\Bioanalyzer\2016-01-19\2016-01-19_004.xad)		Instrument	Run		1/19/2016 3:34:38 PM	(GMT --08:00) Pacific Standard Time	UC Davis	D8XSMGH1
Product Number : G2938B		Instrument	Run		1/19/2016 3:34:38 PM	(GMT --08:00) Pacific Standard Time	UC Davis	D8XSMGH1
Name :		Instrument	Run		1/19/2016 3:34:38 PM	(GMT --08:00) Pacific Standard Time	UC Davis	D8XSMGH1
Vendor : Agilent Technologies		Instrument	Run		1/19/2016 3:34:38 PM	(GMT --08:00) Pacific Standard Time	UC Davis	D8XSMGH1
Serial# : DE13701086		Instrument	Run		1/19/2016 3:34:38 PM	(GMT --08:00) Pacific Standard Time	UC Davis	D8XSMGH1
Firmware : C.01.069		Instrument	Run		1/19/2016 3:34:38 PM	(GMT --08:00) Pacific Standard Time	UC Davis	D8XSMGH1
Cartridge : Electrode		Instrument	Run		1/19/2016 3:34:38 PM	(GMT --08:00) Pacific Standard Time	UC Davis	D8XSMGH1