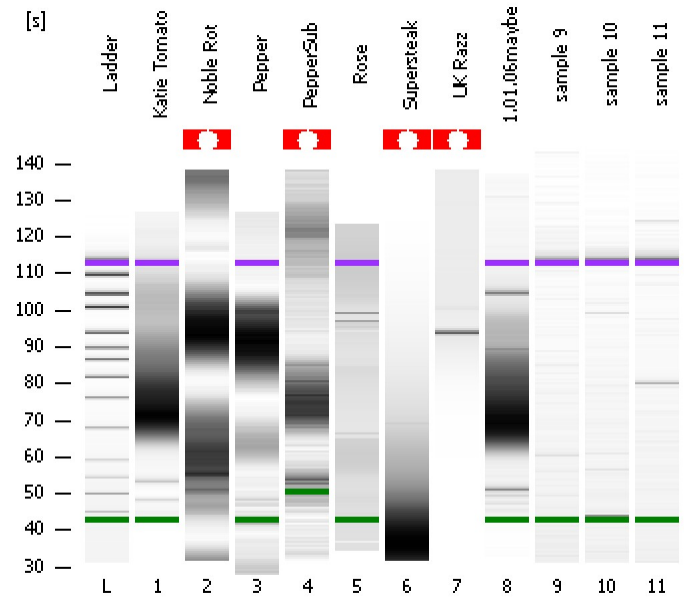
Assay Class: High Sensitivity DNA Assay
Data Path: C:\...ents and Settings\Bioanalyzer\2012-04-11\2012-04-11_007.xad

Created: 4/11/2012 4:15:38 PM
Modified: 4/11/2012 5:02:24 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

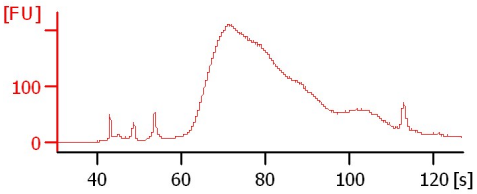
Chip Information:

Chip Lot #:

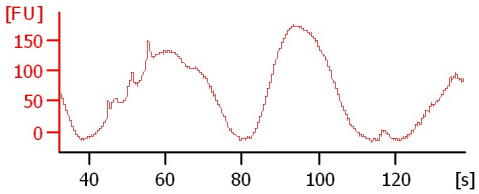
Reagent Kit Lot #:

Chip Comments:

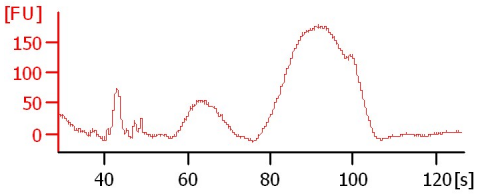
Katie Tomato



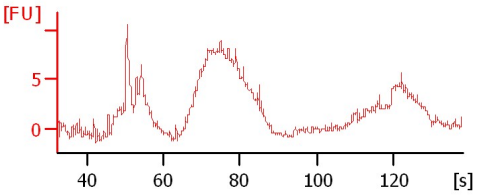
Noble Rot



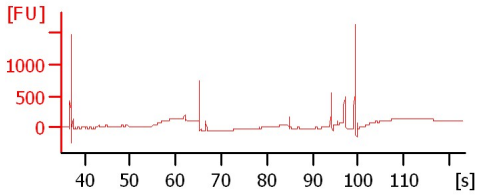
Pepper



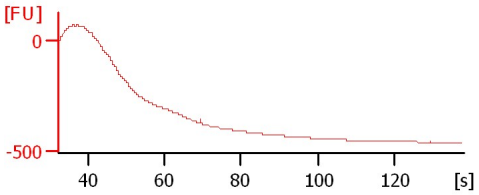
PepperSub



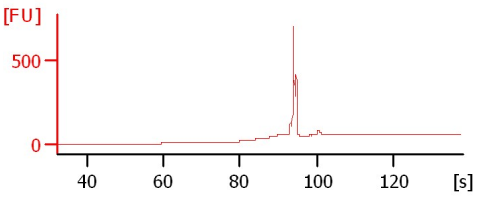
Rose



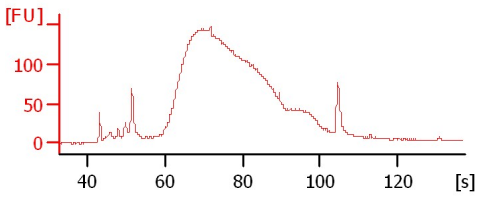
Supersteak



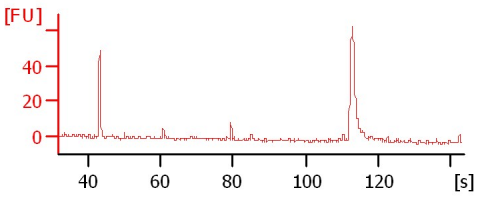
UK Razz



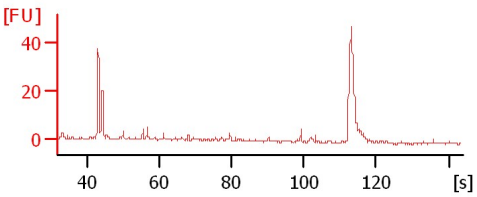
1.01.06maybe



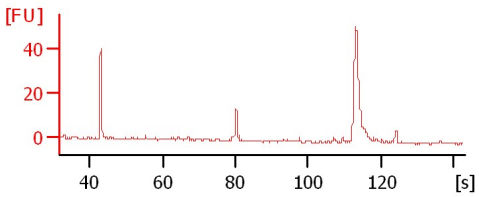
sample 9



sample 10



sample 11



Assay Class: High Sensitivity DNA Assay
Data Path: C:\...ents and Settings\Bioanalyzer\2012-04-11\2012-04-11_007.xad

Created: 4/11/2012 4:15:38 PM
Modified: 4/11/2012 5:02:24 PM

Electrophoresis File Run Summary (Chip Summary)

Sample Name	Sample Comment	Rest. Digest	Status	Observation	Result Label	Result Color
Katie Tomato		☐	✓			
Noble Rot		☐	✓			
Pepper		☐	✓			
PepperSub		☐	✓			
Rose		☐	✓			
Supersteak		☐	✓			
UK Razz		☐	✓			
1.01.06maybe		☐	✓			
sample 9		☐	✓			
sample 10		☐	✓			
sample 11		☐	✓			
Ladder		☐	✓			

Chip Lot # **Reagent Kit Lot #**

Chip Comments :

Assay Class: High Sensitivity DNA Assay
Data Path: C:\...ents and Settings\Bioanalyzer\2012-04-11\2012-04-11_007.xad

Created: 4/11/2012 4:15:38 PM
Modified: 4/11/2012 5:02:24 PM

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

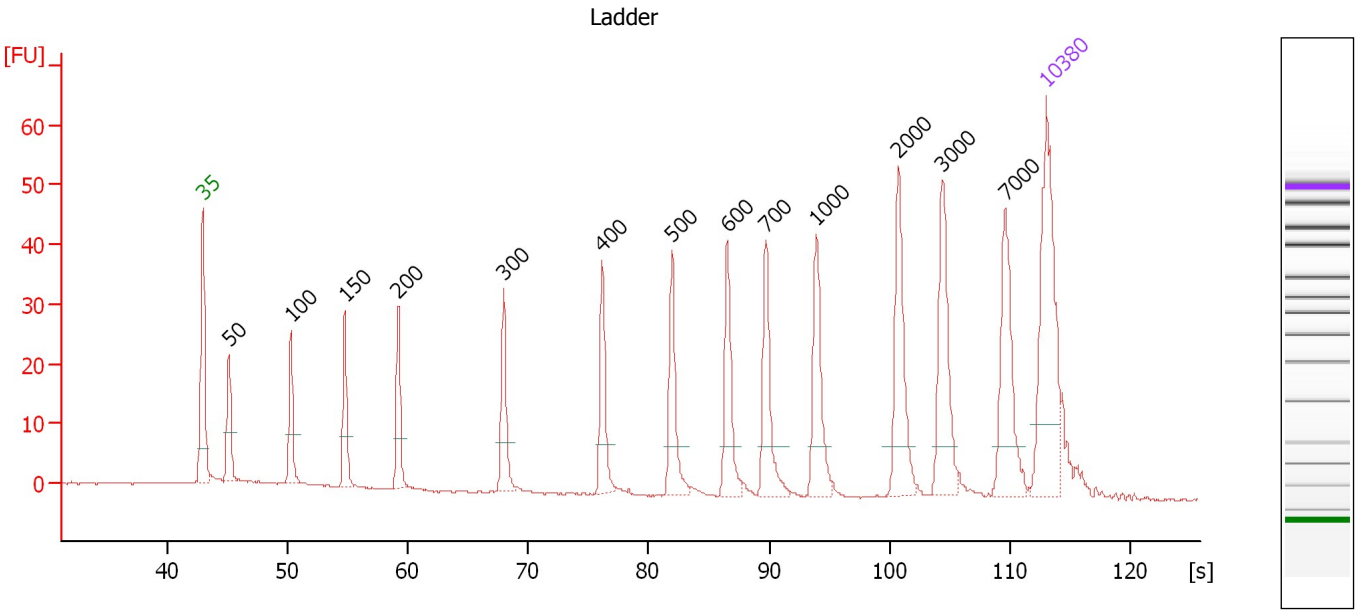
Ladder

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

Assay Class: High Sensitivity DNA Assay
Data Path: C:\...ents and Settings\Bioanalyzer\2012-04-11\2012-04-11_007.xad

Created: 4/11/2012 4:15:38 PM
Modified: 4/11/2012 5:02:24 PM

Electropherogram Summary



Overall Results for Ladder

Noise: 0.2

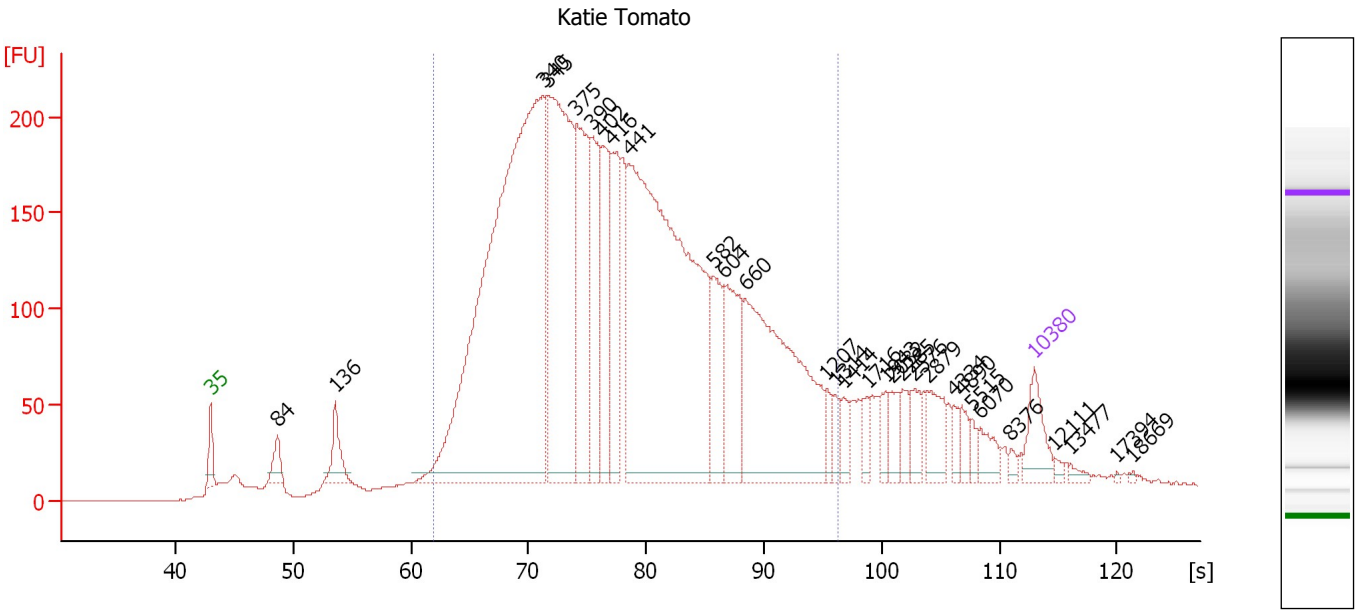
Peak table for Ladder

Peak		Size [bp]	Conc. [pg/µl]	Molarity [pmol/l]	Observations
1		35	125.00	5,411.3	Lower Marker
2		50	150.00	4,545.5	Ladder Peak
3		100	150.00	2,272.7	Ladder Peak
4		150	150.00	1,515.2	Ladder Peak
5		200	150.00	1,136.4	Ladder Peak
6		300	150.00	757.6	Ladder Peak
7		400	150.00	568.2	Ladder Peak
8		500	150.00	454.5	Ladder Peak
9		600	150.00	378.8	Ladder Peak
10		700	150.00	324.7	Ladder Peak
11		1,000	150.00	227.3	Ladder Peak
12		2,000	150.00	113.6	Ladder Peak
13		3,000	150.00	75.8	Ladder Peak
14		7,000	150.00	32.5	Ladder Peak
15		10,380	75.00	10.9	Upper Marker

Assay Class: High Sensitivity DNA Assay
Data Path: C:\...ents and Settings\Bioanalyzer\2012-04-11\2012-04-11_007.xad

Created: 4/11/2012 4:15:38 PM
Modified: 4/11/2012 5:02:24 PM

Electropherogram Summary Continued ...



Overall Results for sample 1 : Katie Tomato

Number of peaks found:	30	Corr. Area 1:	5,723.1
Noise:	0.2		

Peak table for sample 1 : Katie Tomato

Peak	Size [bp]	Conc. [pg/µl]	Molarity [pmol/l]	Observations
1	35	125.00	5,411.3	Lower Marker
2	84	65.74	1,180.8	
3	136	107.11	1,189.5	
4	340	2,227.47	9,914.3	
5	345	919.10	4,037.8	
6	375	449.72	1,819.2	
7	390	276.35	1,074.5	
8	402	236.52	891.5	
9	416	243.08	885.0	
10	441	1,649.25	5,661.5	
11	582	164.98	429.4	
12	604	221.97	556.6	
13	660	710.23	1,631.1	
14	1,207	31.95	40.1	
15	1,314	31.92	36.8	
16	1,414	34.51	37.0	
17	1,716	29.02	25.6	
18	1,943	37.82	29.5	
19	2,032	39.87	29.7	
20	2,285	40.13	26.6	
21	2,576	48.10	28.3	
22	2,879	70.82	37.3	
23	4,334	23.84	8.3	
24	4,890	30.14	9.3	
25	5,515	18.58	5.1	
26	6,070	44.06	11.0	

Assay Class: High Sensitivity DNA Assay
Data Path: C:\...ents and Settings\Bioanalyzer\2012-04-11\2012-04-11_007.xad

Created: 4/11/2012 4:15:38 PM
Modified: 4/11/2012 5:02:24 PM

Electropherogram Summary Continued ...

... Peak table for sample 1 : Katie Tomato

Peak	Size [bp]	Conc. [pg/µl]	Molarity [pmol/l]	Observations
27	8,376	11.15	2.0	
28	10,380	75.00	10.9	Upper Marker
29	12,111	0.00	0.0	
30	13,477	0.00	0.0	
31	17,394	0.00	0.0	
32	18,669	0.00	0.0	

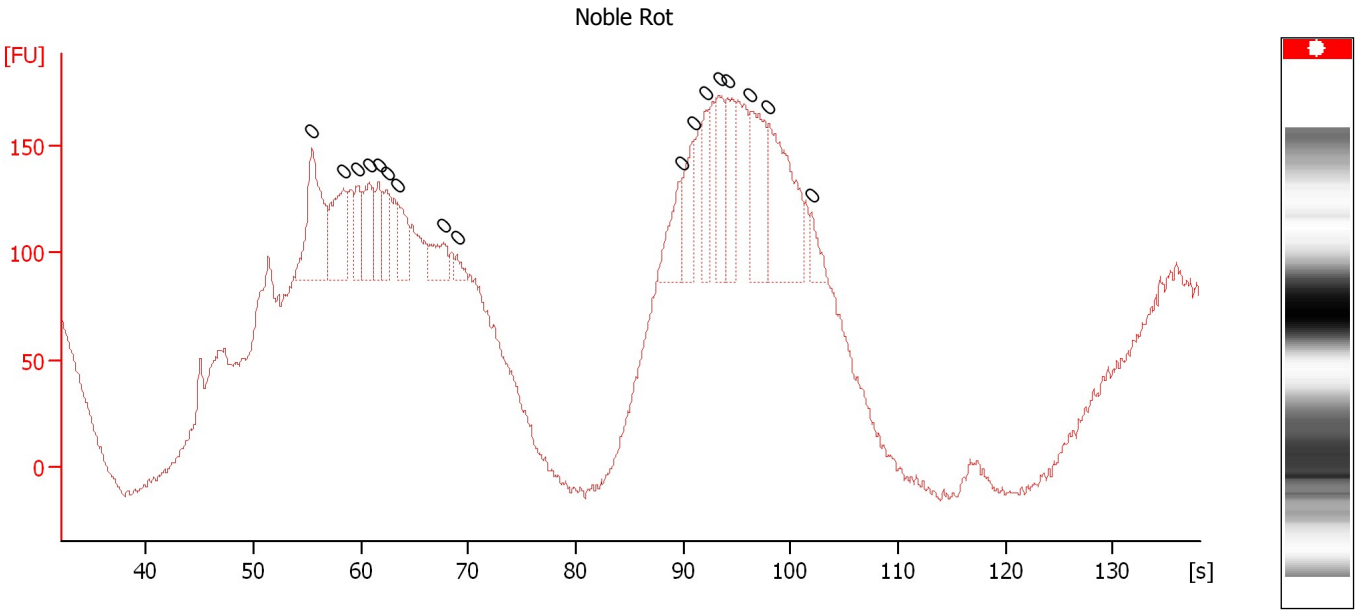
Region table for sample 1 : Katie Tomato

From [bp]	Molarity [pmol/l]	Average Size [bp]	Conc. [pg/µl]	To [bp]	Corr. Area	% of Total	Size distribution in CV [%]	Color
231	29,508.0	470	7,705.52	1,353	5,723.1	85	41.7	

Assay Class: High Sensitivity DNA Assay
Data Path: C:\...ents and Settings\Bioanalyzer\2012-04-11\2012-04-11_007.xad

Created: 4/11/2012 4:15:38 PM
Modified: 4/11/2012 5:02:24 PM

Electropherogram Summary Continued ...



Overall Results for sample 2 : Noble Rot

Number of peaks found: 0 Noise: 2.4

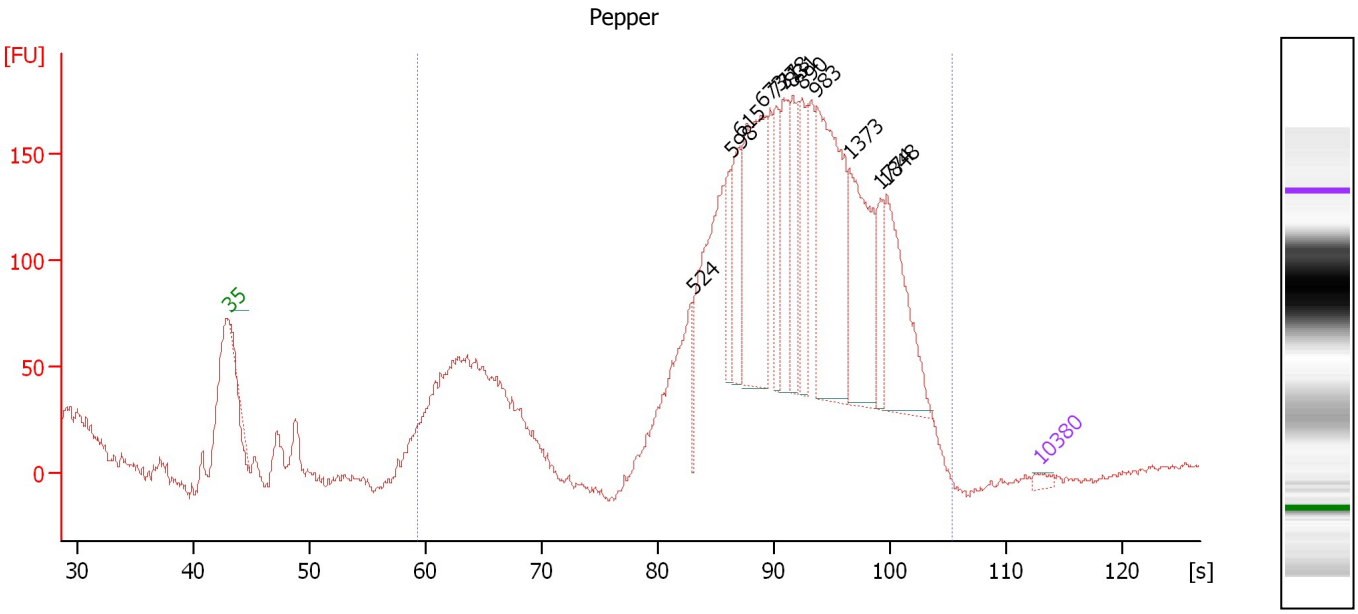
Peak table for sample 2 : Noble Rot

Peak	Size [bp]	Conc. [pg/µl]	Molarity [pmol/l]	Observations
1	0	0.00	0.0	
2	0	0.00	0.0	
3	0	0.00	0.0	
4	0	0.00	0.0	
5	0	0.00	0.0	
6	0	0.00	0.0	
7	0	0.00	0.0	
8	0	0.00	0.0	
9	0	0.00	0.0	
10	0	0.00	0.0	
11	0	0.00	0.0	
12	0	0.00	0.0	
13	0	0.00	0.0	
14	0	0.00	0.0	
15	0	0.00	0.0	
16	0	0.00	0.0	
17	0	0.00	0.0	

Assay Class: High Sensitivity DNA Assay
Data Path: C:\...ents and Settings\Bioanalyzer\2012-04-11\2012-04-11_007.xad

Created: 4/11/2012 4:15:38 PM
Modified: 4/11/2012 5:02:24 PM

Electropherogram Summary Continued ...



Setpoint Deviations for sample 3 : Pepper

Height Threshold [FU] : 0.1

Overall Results for sample 3 : Pepper

Number of peaks found:	13	Corr. Area 1:	3,177.7
Noise:	2.1		

Peak table for sample 3 : Pepper

Peak	Size [bp]	Conc. [pg/µl]	Molarity [pmol/l]	Observations
1	0	0.00	0.0	
2	35	125.00	5,411.3	Lower Marker
3	524	128.24	370.8	
4	598	613.26	1,554.7	
5	615	933.37	2,297.9	
6	673	2,731.41	6,147.9	
7	731	814.80	1,688.5	
8	778	1,129.46	2,200.8	
9	831	982.18	1,791.6	
10	890	1,063.12	1,809.2	
11	983	3,100.75	4,778.5	
12	1,373	1,904.04	2,101.2	
13	1,774	540.06	461.3	
14	1,848	1,657.31	1,358.5	
15	10,380	75.00	10.9	Upper Marker

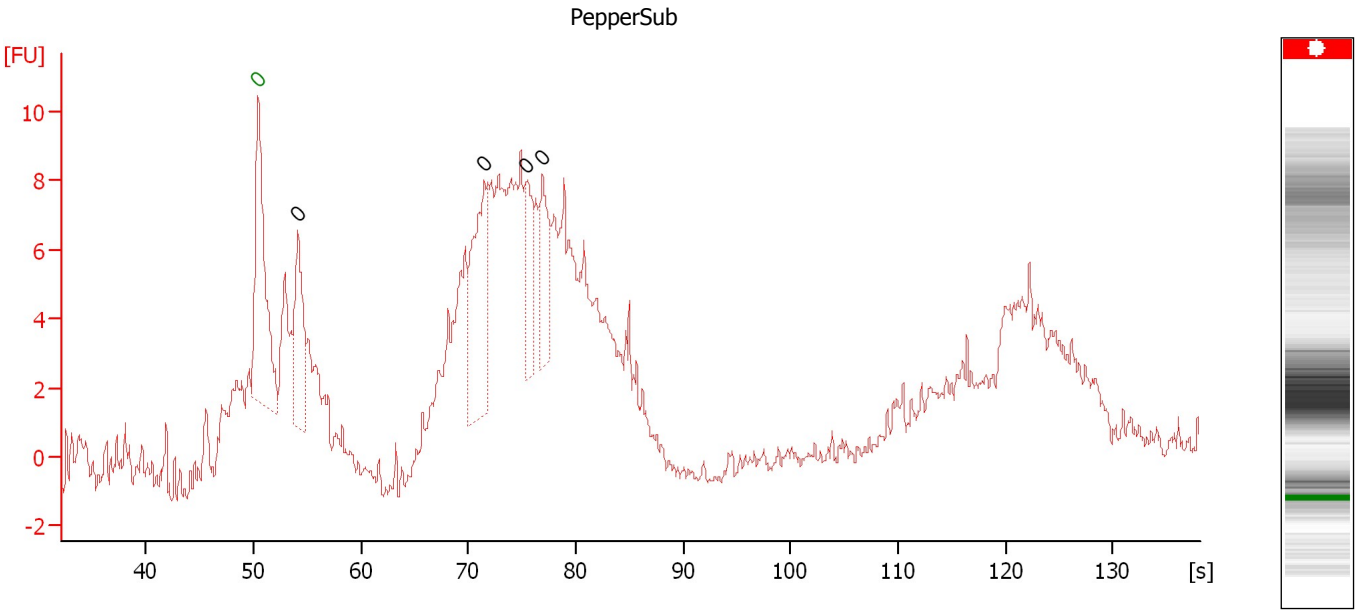
Region table for sample 3 : Pepper

From [bp]	Molarity [pmol/l]	Average Size [bp]	Conc. [pg/µl]	To [bp]	Corr. Area	% of Total	Size distribution in CV [%]	Color
200	67,842.1	995	28,500.06	3,690	3,177.7	98	54.8	

Assay Class: High Sensitivity DNA Assay
Data Path: C:\...ents and Settings\Bioanalyzer\2012-04-11\2012-04-11_007.xad

Created: 4/11/2012 4:15:38 PM
Modified: 4/11/2012 5:02:24 PM

Electropherogram Summary Continued ...



Overall Results for sample 4 : PepperSub

Number of peaks found: 4 Noise: 0.3

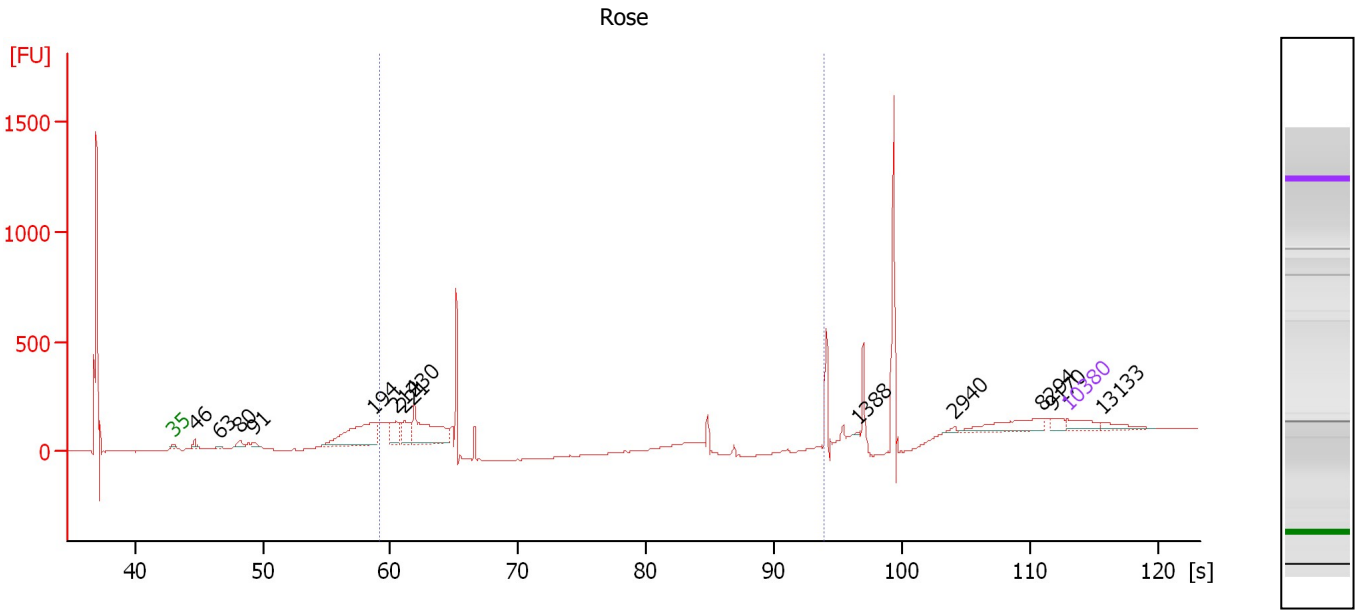
Peak table for sample 4 : PepperSub

Peak	Size [bp]	Conc. [pg/µl]	Molarity [pmol/l]	Observations
1	0	0.00	0.0	Lower Marker
2	0	0.00	0.0	
3	0	0.00	0.0	
4	0	0.00	0.0	
5	0	0.00	0.0	

Assay Class: High Sensitivity DNA Assay
Data Path: C:\...ents and Settings\Bioanalyzer\2012-04-11\2012-04-11_007.xad

Created: 4/11/2012 4:15:38 PM
Modified: 4/11/2012 5:02:24 PM

Electropherogram Summary Continued ...



Overall Results for sample 5 : Rose

Number of peaks found:	13	Corr. Area 1:	1,271.1
Noise:	1.3		

Peak table for sample 5 : Rose

Peak	Size [bp]	Conc. [pg/µl]	Molarity [pmol/l]	Observations
1	35	125.00	5,411.3	Lower Marker
2	46	44.84	1,461.6	
3	63	7.41	177.1	
4	80	56.01	1,065.2	
5	91	27.90	466.2	
6	194	605.16	4,719.7	
7	214	166.65	1,178.6	
8	221	180.18	1,235.8	
9	230	534.85	3,516.9	
10	1,388	4.63	5.1	
11	2,940	13.88	7.2	
12	8,294	177.85	32.5	
13	9,170	45.61	7.5	
14	10,380	75.00	10.9	Upper Marker
15	13,133	0.00	0.0	

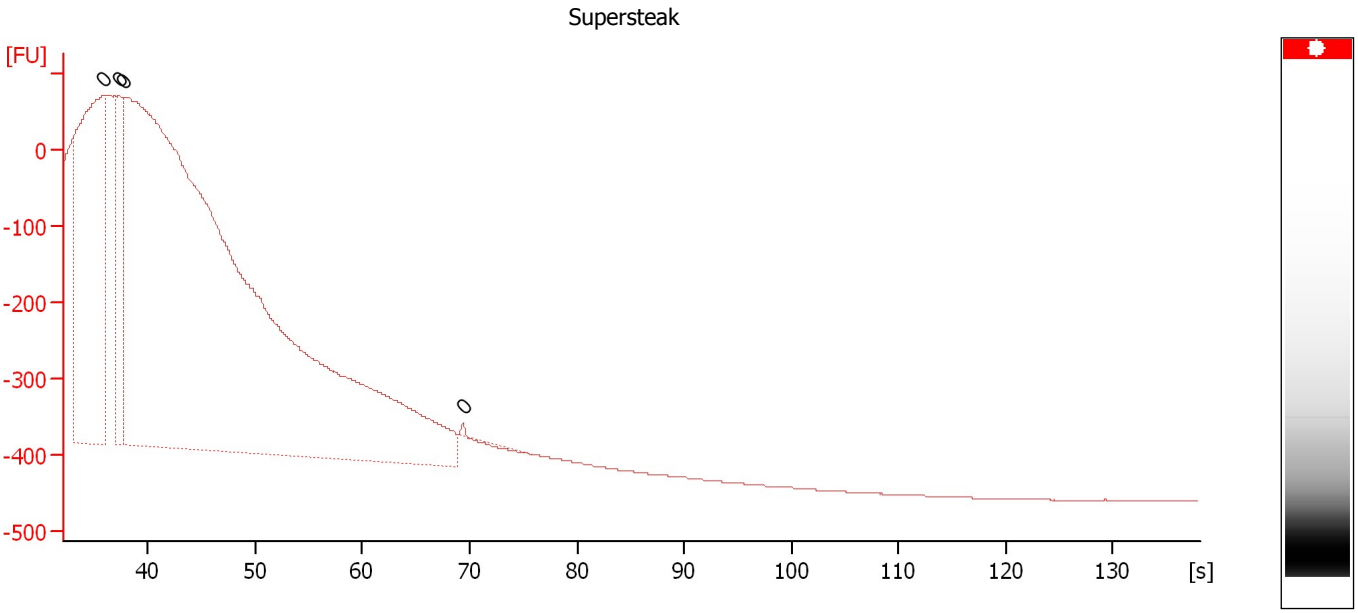
Region table for sample 5 : Rose

From [bp]	Molarity [pmol/l]	Average Size [bp]	Conc. [pg/µl]	To [bp]	Corr. Area	% of Total	Size distribution in CV [%]	Color
200	8,836.4	252	1,398.27	1,000	1,271.1	30	34.6	

Assay Class: High Sensitivity DNA Assay
Data Path: C:\...ents and Settings\Bioanalyzer\2012-04-11\2012-04-11_007.xad

Created: 4/11/2012 4:15:38 PM
Modified: 4/11/2012 5:02:24 PM

Electropherogram Summary Continued ...



Overall Results for sample 6 : Supersteak

Number of peaks found: 0 Noise: 0.1

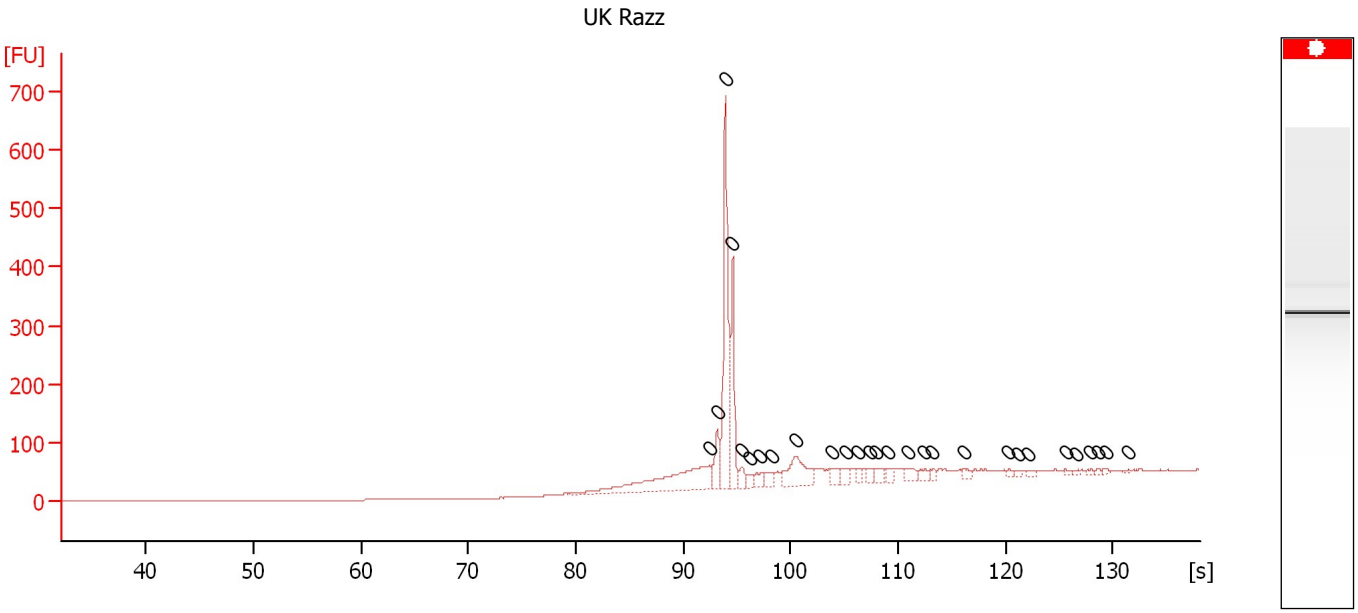
Peak table for sample 6 : Supersteak

Peak	Size [bp]	Conc. [pg/µl]	Molarity [pmol/l]	Observations
1	0	0.00	0.0	
2	0	0.00	0.0	
3	0	0.00	0.0	
4	0	0.00	0.0	

Assay Class: High Sensitivity DNA Assay
Data Path: C:\...ents and Settings\Bioanalyzer\2012-04-11\2012-04-11_007.xad

Created: 4/11/2012 4:15:38 PM
Modified: 4/11/2012 5:02:24 PM

Electropherogram Summary Continued ...



Overall Results for sample 7 : UK Razz

Number of peaks found: 0 Noise: 0.1

Peak table for sample 7 : UK Razz

Peak	Size [bp]	Conc. [pg/µl]	Molarity [pmol/l]	Observations
1	0	0.00	0.0	
2	0	0.00	0.0	
3	0	0.00	0.0	
4	0	0.00	0.0	
5	0	0.00	0.0	
6	0	0.00	0.0	
7	0	0.00	0.0	
8	0	0.00	0.0	
9	0	0.00	0.0	
10	0	0.00	0.0	
11	0	0.00	0.0	
12	0	0.00	0.0	
13	0	0.00	0.0	
14	0	0.00	0.0	
15	0	0.00	0.0	
16	0	0.00	0.0	
17	0	0.00	0.0	
18	0	0.00	0.0	
19	0	0.00	0.0	
20	0	0.00	0.0	
21	0	0.00	0.0	
22	0	0.00	0.0	
23	0	0.00	0.0	
24	0	0.00	0.0	
25	0	0.00	0.0	
26	0	0.00	0.0	
27	0	0.00	0.0	

Assay Class: High Sensitivity DNA Assay
Data Path: C:\...ents and Settings\Bioanalyzer\2012-04-11\2012-04-11_007.xad

Created: 4/11/2012 4:15:38 PM
Modified: 4/11/2012 5:02:24 PM

Electropherogram Summary Continued ...

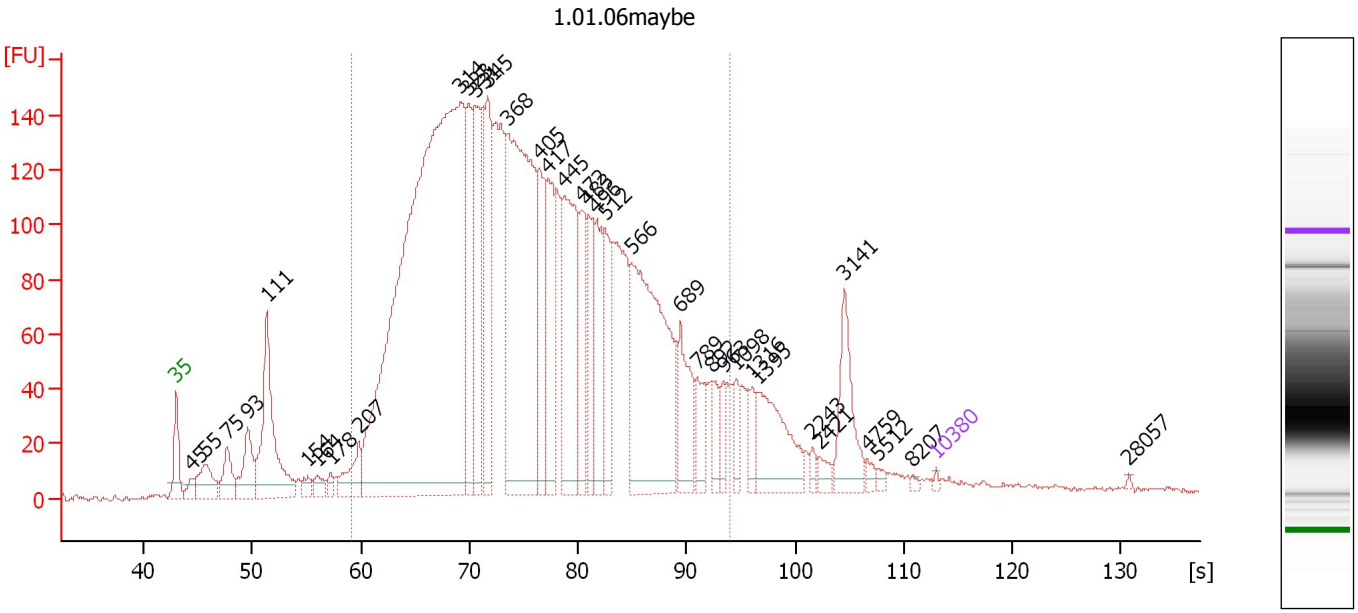
... Peak table for sample 7 : UK Razz

Peak	Size [bp]	Conc. [pg/µl]	Molarity [pmol/l]	Observations
28	0	0.00	0.0	

Assay Class: High Sensitivity DNA Assay
Data Path: C:\...ents and Settings\Bioanalyzer\2012-04-11\2012-04-11_007.xad

Created: 4/11/2012 4:15:38 PM
Modified: 4/11/2012 5:02:24 PM

Electropherogram Summary Continued ...



Overall Results for sample 8 : 1.01.06maybe

Number of peaks found:	36	Corr. Area 1:	4,342.0
Noise:	0.8		

Peak table for sample 8 : 1.01.06maybe

Peak	Size [bp]	Conc. [pg/µl]	Molarity [pmol/l]	Observations
1	35	125.00	5,411.3	Lower Marker
2	45	598.07	20,201.6	
3	55	2,132.84	59,010.8	
4	75	1,762.85	35,826.3	
5	93	2,582.65	42,123.1	
6	111	7,624.08	103,929.0	
7	154	554.45	5,471.3	
8	164	679.27	6,289.7	
9	178	393.27	3,354.1	
10	207	1,792.21	13,128.0	
11	314	49,463.81	238,387.9	
12	323	4,787.36	22,423.3	
13	331	5,403.94	24,708.9	
14	345	5,553.72	24,410.5	
15	368	16,659.21	68,632.8	
16	405	4,050.85	15,153.9	
17	417	4,121.00	14,974.3	
18	445	6,901.45	23,489.8	
19	472	3,159.23	10,130.8	
20	483	2,873.11	9,017.7	
21	496	3,338.13	10,206.4	
22	512	2,422.69	7,174.6	
23	566	11,407.53	30,563.0	
24	689	2,766.14	6,078.8	
25	789	1,281.20	2,459.8	
26	892	871.17	1,479.9	

Assay Class: High Sensitivity DNA Assay
Data Path: C:\...ents and Settings\Bioanalyzer\2012-04-11\2012-04-11_007.xad

Created: 4/11/2012 4:15:38 PM
Modified: 4/11/2012 5:02:24 PM

Electropherogram Summary Continued ...

... Peak table for sample 8 : 1.01.06maybe

Peak	Size [bp]	Conc. [pg/µl]	Molarity [pmol/l]	Observations
27	963	772.49	1,215.7	
28	1,098	749.27	1,034.0	
29	1,316	880.08	1,013.5	
30	1,395	3,177.14	3,449.6	
31	2,243	243.92	164.8	
32	2,421	379.01	237.2	
33	3,141	2,334.36	1,126.2	
34	4,759	235.49	75.0	
35	5,512	173.82	47.8	
36	8,207	93.40	17.2	
37	10,380	75.00	10.9	Upper Marker
38	28,057	0.00	0.0	

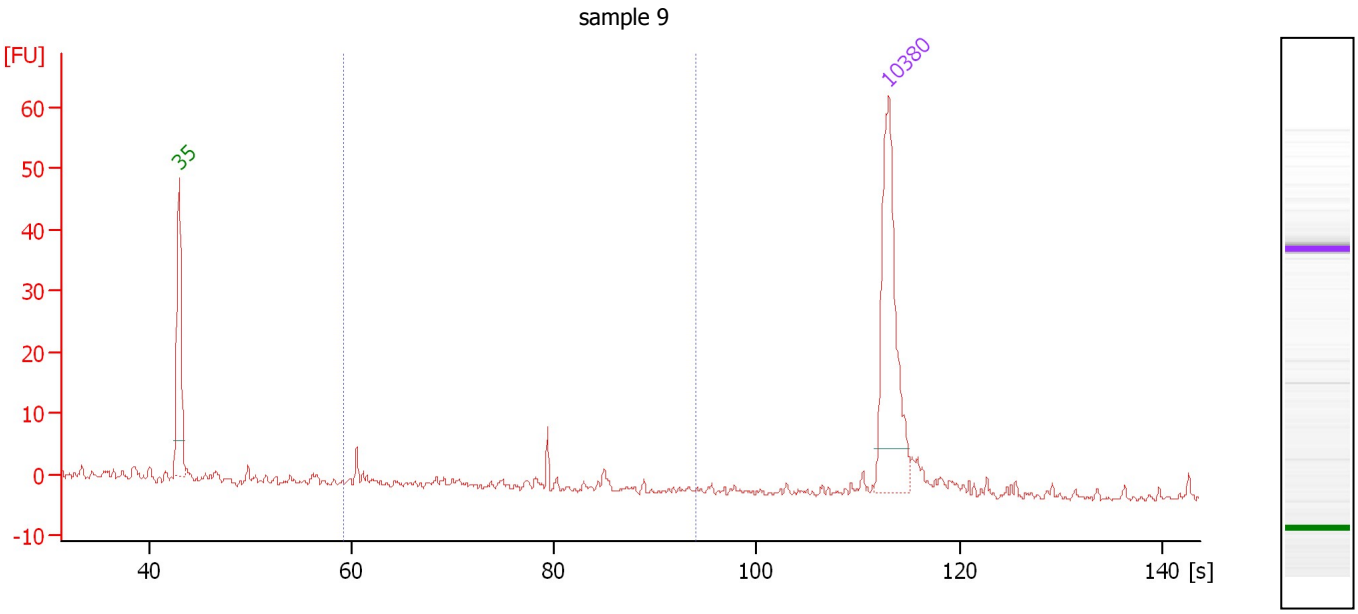
Region table for sample 8 : 1.01.06maybe

From [bp]	Molarity [pmol/l]	Average Size [bp]	Conc. [pg/µl]	To [bp]	Corr. Area	% of Total	Size distribution in CV [%]	Color
200	634,414.3	421	150,723.75	1,000	4,342.0	84	36.4	

Assay Class: High Sensitivity DNA Assay
Data Path: C:\...ents and Settings\Bioanalyzer\2012-04-11\2012-04-11_007.xad

Created: 4/11/2012 4:15:38 PM
Modified: 4/11/2012 5:02:24 PM

Electropherogram Summary Continued ...



Overall Results for sample 9 : sample 9

Number of peaks found:	0	Corr. Area 1:	11.7
Noise:	0.6		

Peak table for sample 9 : sample 9

Peak	Size [bp]	Conc. [pg/µl]	Molarity [pmol/l]	Observations
1	35	125.00	5,411.3	Lower Marker
2	10,380	75.00	10.9	Upper Marker

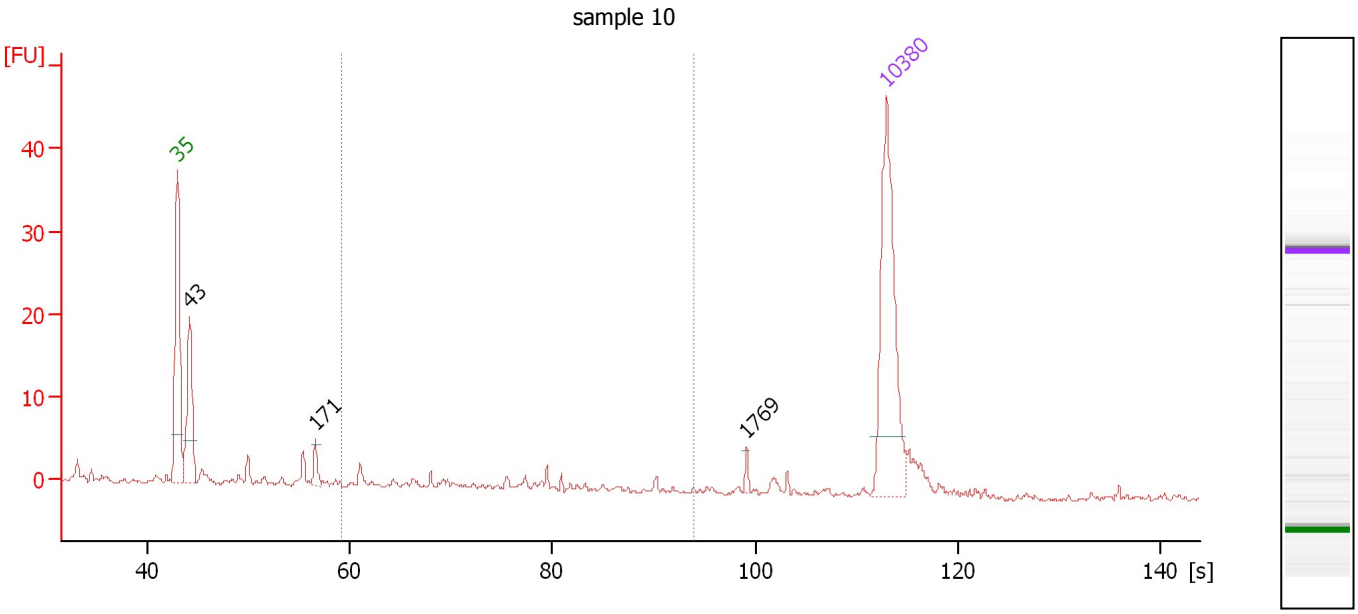
Region table for sample 9 : sample 9

From [bp]	Molarity [pmol/l]	Average Size [bp]	Conc. [pg/µl]	To [bp]	Corr. Area	% of Total	Size distribution in CV [%]	Color
200	73.4	387	14.98	1,000	11.7	24	34.8	

Assay Class: High Sensitivity DNA Assay
Data Path: C:\...ents and Settings\Bioanalyzer\2012-04-11\2012-04-11_007.xad

Created: 4/11/2012 4:15:38 PM
Modified: 4/11/2012 5:02:24 PM

Electropherogram Summary Continued ...



Overall Results for sample 10 : sample 10

Number of peaks found:	3	Corr. Area 1:	7.1
Noise:	0.3		

Peak table for sample 10 : sample 10

Peak	Size [bp]	Conc. [pg/µl]	Molarity [pmol/l]	Observations
1	35	125.00	5,411.3	Lower Marker
2	43	66.33	2,336.8	
3	171	8.81	78.3	
4	1,769	2.43	2.1	
5	10,380	75.00	10.9	Upper Marker

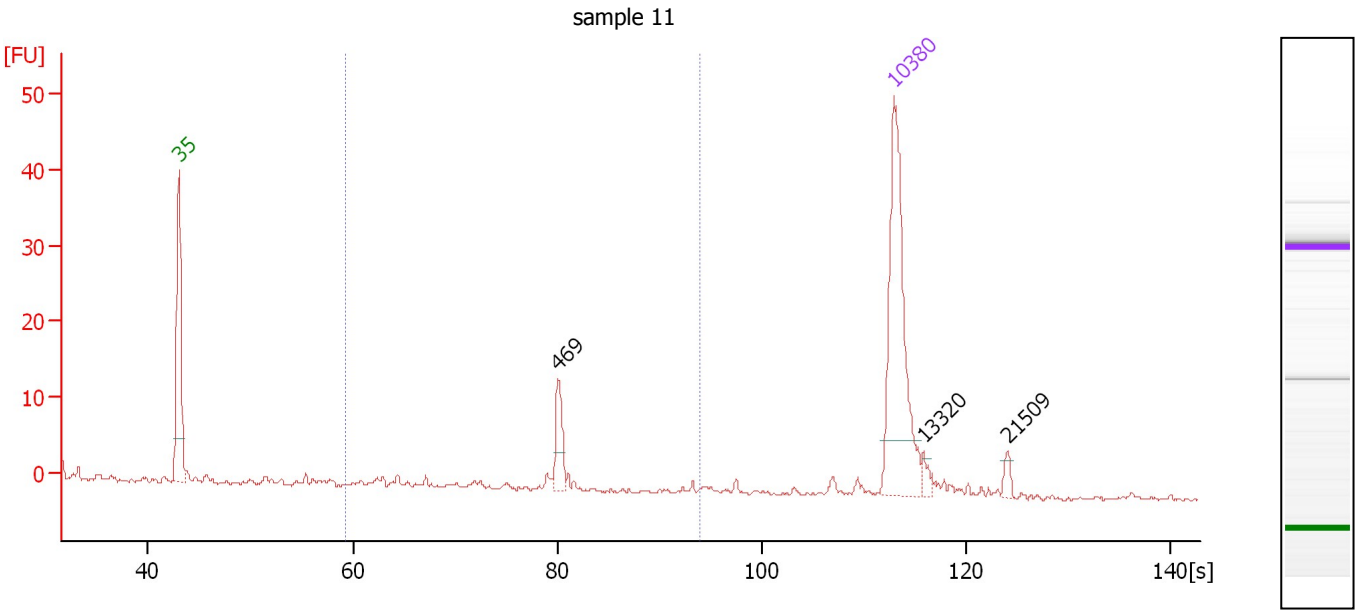
Region table for sample 10 : sample 10

From [bp]	Molarity [pmol/l]	Average Size [bp]	Conc. [pg/µl]	To [bp]	Corr. Area	% of Total	Size distribution in CV [%]	Color
200	56.7	407	12.64	1,000	7.1	12	37.4	

Assay Class: High Sensitivity DNA Assay
Data Path: C:\...ents and Settings\Bioanalyzer\2012-04-11\2012-04-11_007.xad

Created: 4/11/2012 4:15:38 PM
Modified: 4/11/2012 5:02:24 PM

Electropherogram Summary Continued ...



Overall Results for sample 11 : sample 11

Number of peaks found:	3	Corr. Area 1:	18.1
Noise:	0.2		

Peak table for sample 11 : sample 11

Peak		Size [bp]	Conc. [pg/µl]	Molarity [pmol/l]	Observations
1	◀	35	125.00	5,411.3	Lower Marker
2		469	18.30	59.2	
3	▶	10,380	75.00	10.9	Upper Marker
4		13,320	0.00	0.0	
5		21,509	0.00	0.0	

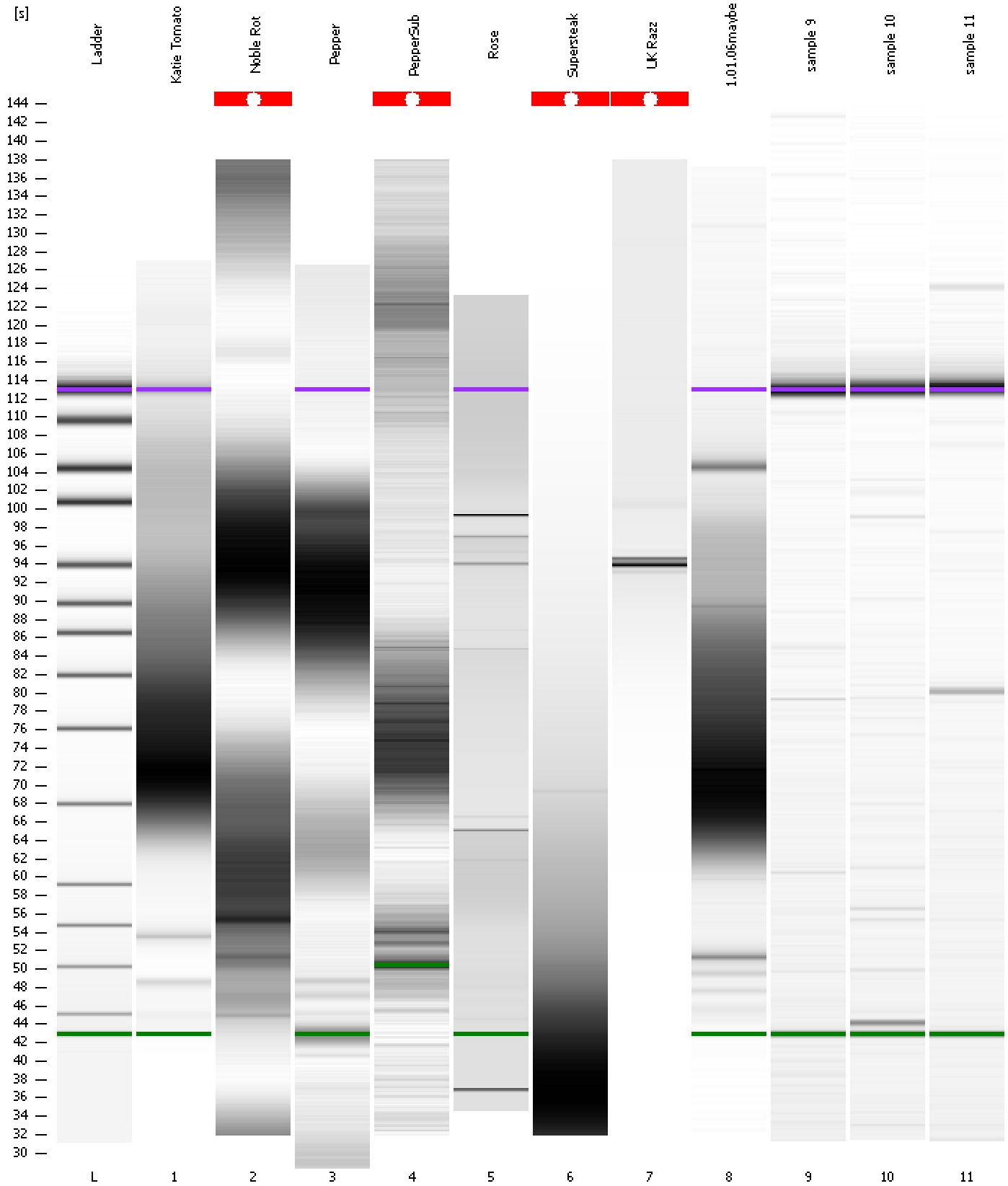
Region table for sample 11 : sample 11

From [bp]	Molarity [pmol/l]	Average Size [bp]	Conc. [pg/µl]	To [bp]	Corr. Area	% of Total	Size distribution in CV [%]	Color
200	93.2	454	25.62	1,000	18.1	45	22.5	

Assay Class: High Sensitivity DNA Assay
Data Path: C:\...ents and Settings\Bioanalyzer\2012-04-11\2012-04-11_007.xad

Created: 4/11/2012 4:15:38 PM
Modified: 4/11/2012 5:02:24 PM

Gel Image



Assay Class: High Sensitivity DNA Assay
Data Path: C:\...ents and Settings\Bioanalyzer\2012-04-11\2012-04-11_007.xad

Created: 4/11/2012 4:15:38 PM
Modified: 4/11/2012 5:02:24 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		4/11/2012 4:56:57 PM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Run started on port 1 (File: C:\Documents and Settings\Bioanalyzer\2012-04-11\2012-04-11_007.xad)		Instrument	Run		4/11/2012 4:15:44 PM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Product Number : G2938B		Instrument	Run		4/11/2012 4:15:44 PM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Name :		Instrument	Run		4/11/2012 4:15:44 PM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Vendor : Agilent Technologies		Instrument	Run		4/11/2012 4:15:44 PM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Serial# : DE13701086		Instrument	Run		4/11/2012 4:15:44 PM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Firmware : C.01.069		Instrument	Run		4/11/2012 4:15:44 PM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Cartridge : Electrode		Instrument	Run		4/11/2012 4:15:44 PM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1