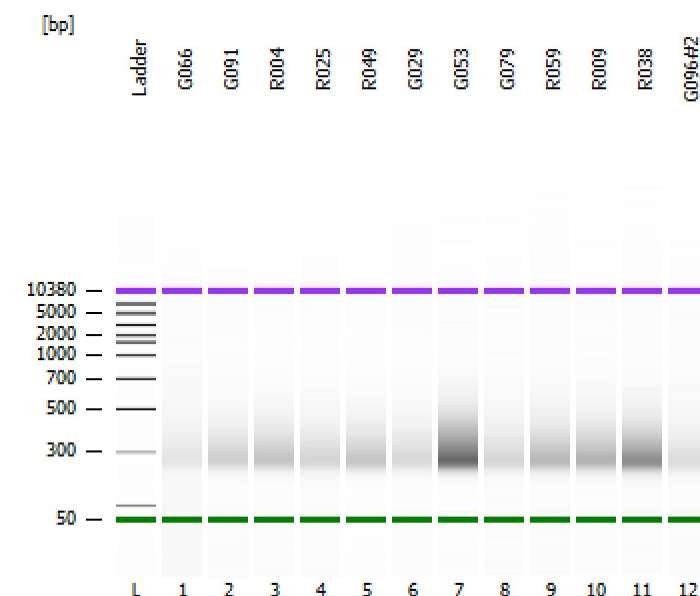


Assay Class: DNA 7500
Data Path: C:\...-23\2100 expert_DNA 7500_DE13804163_2016-05-23_11-55-13.xad

Created: 5/23/2016 11:55:12 AM
Modified: 5/23/2016 2:12:05 PM

Electrophoresis File Run SummaryInstrument Information:

Instrument Name: DE13804163
Serial#: DE13804163

Firmware: C.01.069
Type: G2939A

Assay Information:

Assay Origin Path: C:\Program Files\Agilent\2100 bioanalyzer\2100 expert\assays\dsDNA\DNA 7500 Series II.xsy

Assay Class: DNA 7500

Version: 2.3

Assay Comments: DNA Analysis 100 -7500 bp

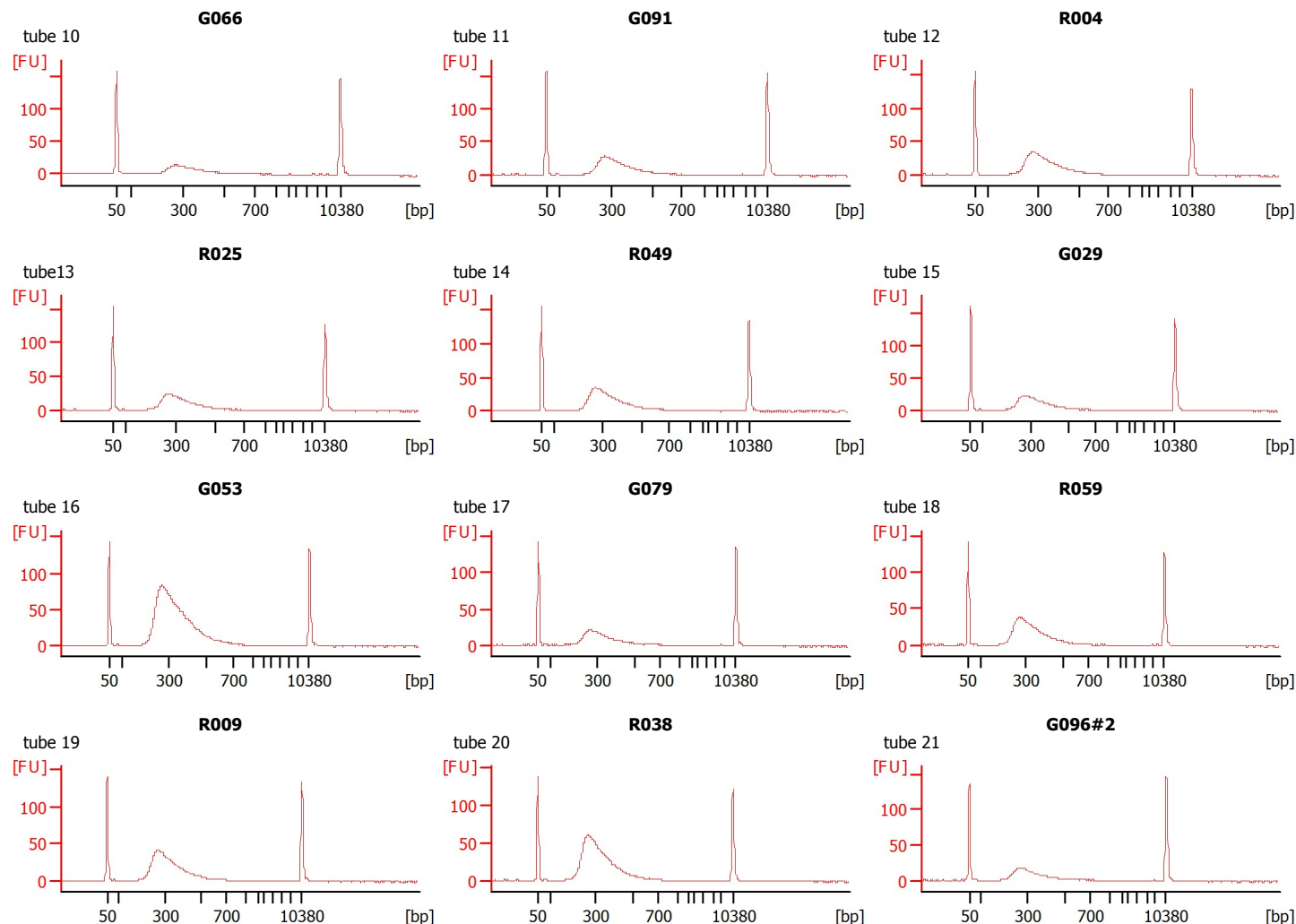
© Copyright 2003-2009 Agilent Technologies, Inc.

Chip Information:

Chip Lot #:

Reagent Kit Lot #:

Chip Comments:



Assay Class: DNA 7500
Data Path: C:\...-23\2100 expert_DNA 7500_DE13804163_2016-05-23_11-55-13.xad

Created: 5/23/2016 11:55:12 AM
Modified: 5/23/2016 2:12:05 PM

Electrophoresis File Run Summary (Chip Summary)

Sample Name	Sample Comment	Rest. Digest	Status	Observation	Result Label	Result Color
G066	tube 10	<input type="checkbox"/>	✓			
G091	tube 11	<input type="checkbox"/>	✓			
R004	tube 12	<input type="checkbox"/>	✓			
R025	tube13	<input type="checkbox"/>	✓			
R049	tube 14	<input type="checkbox"/>	✓			
G029	tube 15	<input type="checkbox"/>	✓			
G053	tube 16	<input type="checkbox"/>	✓			
G079	tube 17	<input type="checkbox"/>	✓			
R059	tube 18	<input type="checkbox"/>	✓			
R009	tube 19	<input type="checkbox"/>	✓			
R038	tube 20	<input type="checkbox"/>	✓			
G096#2	tube 21	<input type="checkbox"/>	✓			
Ladder		<input type="checkbox"/>	✓			

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

Assay Class: DNA 7500
Data Path: C:\...-23\2100 expert_DNA 7500_DE13804163_2016-05-23_11-55-13.xad

Created: 5/23/2016 11:55:12 AM
Modified: 5/23/2016 2:12:05 PM

Electrophoresis Assay Details

General Analysis Settings

Number of Available Sample and Ladder Wells (Max.) : 13
Minimum Visible Range [s] : 20
Maximum Visible Range [s] : 94
Start Analysis Time Range [s] : 20
End Analysis Time Range [s] : 93.95
Ladder Concentration [ng/μl] : 40
Uses Standard Area for Ladder Fragments
Lower Marker Concentration [ng/μl] : 8.3
Upper Marker Concentration [ng/μl] : 4.2
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] : 20
Integration End Time [s] : 93.95
Slope Threshold : 0.8
Height Threshold [FU] : 20
Area Threshold : 0.1
Width Threshold [s] : 0.5
Baseline Plateau [s] : 0.5

Filter Settings

Filter Width [s] : 0.5
Polynomial Order : 4

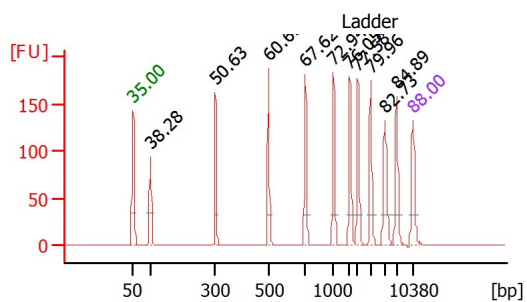
Ladder

Ladder Peak	Size	Area
1	50	120
2	100	47
3	300	63
4	500	81
5	700	85
6	1000	93
7	1500	101
8	2000	101
9	3000	106
10	5000	108
11	7000	109
12	10380	107

Assay Class: DNA 7500
 Data Path: C:\...-23\2100 expert_DNA 7500_DE13804163_2016-05-23_11-55-13.xad

Created: 5/23/2016 11:55:12 AM
 Modified: 5/23/2016 2:12:05 PM

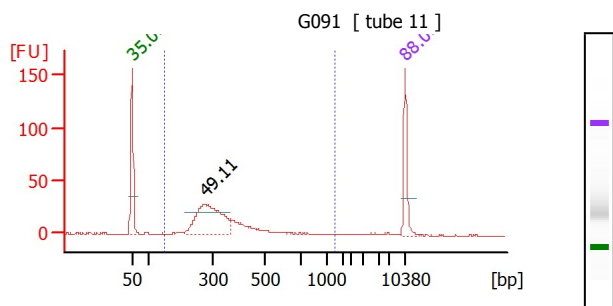
Electropherogram Summary



Assay Class: DNA 7500
 Data Path: C:\...-23\2100 expert_DNA 7500_DE13804163_2016-05-23_11-55-13.xad

Created: 5/23/2016 11:55:12 AM
 Modified: 5/23/2016 2:12:05 PM

Electropherogram Summary Continued ...



Peak table for sample 2 :

Peak	Size [bp]	Conc. [ng/μl]	Molarity [nmol/l]	Observations
1	50	8.30	251.5	Lower Marker
2	275	10.10	55.6	
3	10,380	4.20	0.6	Upper Marker

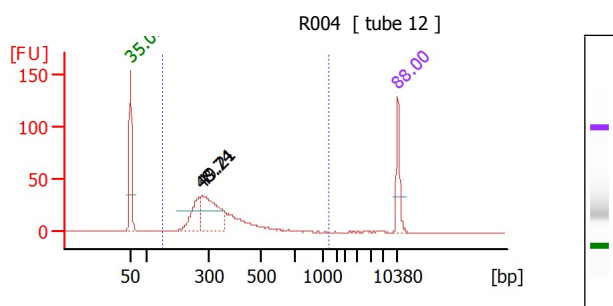
Overall Results for sample 2 : G091

Number of peaks found: 1
 Area 1: 201.6

Region table for sample 2 : G091

From [bp]	To [bp]	Area [bp]	% of Total	Average Size [bp]	Size distribution in CV [%]	Conc. [ng/μl]	Name	Molarity [nmol/l]
150	1,200	201.6	93	347	33.3	12.99	Region 1	61.5

150 1,200 201.6 93 347 33.3 12.99 Region 1 61.5



Peak table for sample 3 :

Peak	Size [bp]	Conc. [ng/μl]	Molarity [nmol/l]	Observations
1	50	8.30	251.5	Lower Marker
2	269	4.86	27.4	
3	277	9.02	49.3	
4	10,380	4.20	0.6	Upper Marker

Overall Results for sample 3 : R004

Number of peaks found: 2
 Area 1: 248.8

Region table for sample 3 : R004

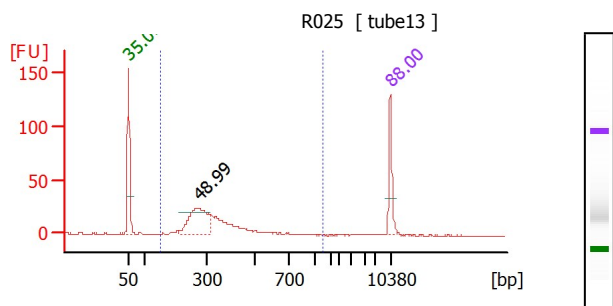
From [bp]	To [bp]	Area [bp]	% of Total	Average Size [bp]	Size distribution in CV [%]	Conc. [ng/μl]	Name	Molarity [nmol/l]
150	1,200	248.8	98	341	27.9	19.13	Region 1	90.9

150 1,200 248.8 98 341 27.9 19.13 Region 1 90.9

Assay Class: DNA 7500
 Data Path: C:\...-23\2100 expert_DNA 7500_DE13804163_2016-05-23_11-55-13.xad

Created: 5/23/2016 11:55:12 AM
 Modified: 5/23/2016 2:12:05 PM

Electropherogram Summary Continued ...



Peak table for sample 4 :

Peak	Size [bp]	Conc. [ng/μl]
1	50	8.30
2	273	8.19
3	10,380	4.20

R025

Molarity [nmol/l]	Observations
251.5	Lower Marker
45.4	
0.6	Upper Marker

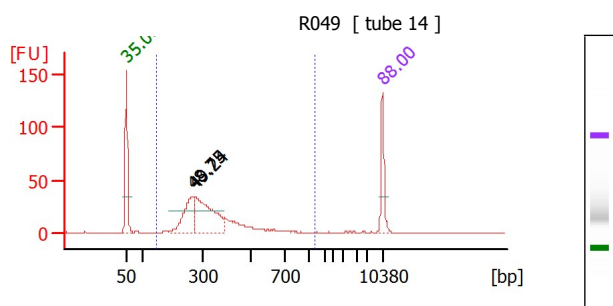
Overall Results for sample 4 : R025

Number of peaks found: 1
 Area 1: 174.7

Region table for sample 4 : R025

From [bp]	To [bp]	Area [bp]	% of Total	Average Size [bp]	Size distribution in CV [%]	Conc. [ng/μl]	Name	Molarity [nmol/l]
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150	1,200	174.7	92	339	30.3	14.57	Region 1	70.3
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Peak table for sample 5 :

Peak	Size [bp]	Conc. [ng/μl]
1	50	8.30
2	269	6.04
3	278	9.73
4	10,380	4.20

R049

Molarity [nmol/l]	Observations
251.5	Lower Marker
33.9	
53.1	
0.6	Upper Marker

Overall Results for sample 5 : R049

Number of peaks found: 2
 Area 1: 252.3

Region table for sample 5 : R049

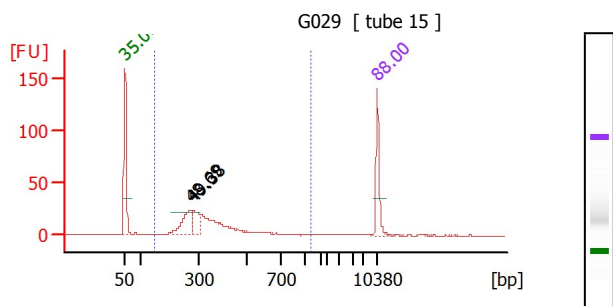
From [bp]	To [bp]	Area [bp]	% of Total	Average Size [bp]	Size distribution in CV [%]	Conc. [ng/μl]	Name	Molarity [nmol/l]
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150	1,200	252.3	94	349	34.7	19.91	Region 1	95.0
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Assay Class: DNA 7500
 Data Path: C:\...-23\2100 expert_DNA 7500_DE13804163_2016-05-23_11-55-13.xad

Created: 5/23/2016 11:55:12 AM
 Modified: 5/23/2016 2:12:05 PM

Electropherogram Summary Continued ...



Peak table for sample 6 :

Peak	Size [bp]	Conc. [ng/μl]	Molarity [nmol/l]	Observations
1	50	8.30	251.5	Lower Marker
2	269	3.67	20.7	
3	280	2.23	12.1	
4	10,380	4.20	0.6	Upper Marker

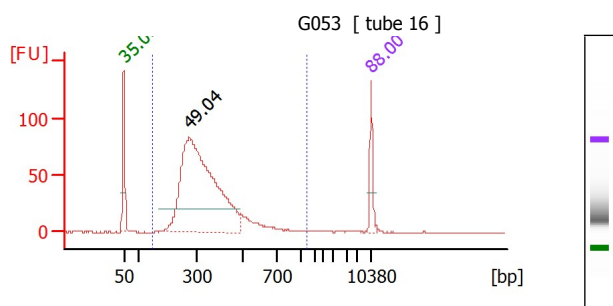
Overall Results for sample 6 : G029

Number of peaks found: 2
 Area 1: 167.9

Region table for sample 6 : G029

From [bp]	To [bp]	Area	% of Total	Average Size [bp]	Size distribution in CV [%]	Conc. [ng/μl]	Name	Molarity [nmol/l]
150	1,200	167.9	88	352	35.4	13.40	Region 1	63.5

150 1,200 167.9 88 352 35.4 13.40 Region 1 63.5



Peak table for sample 7 :

Peak	Size [bp]	Conc. [ng/μl]	Molarity [nmol/l]	Observations
1	50	8.30	251.5	Lower Marker
2	274	53.59	296.2	
3	10,380	4.20	0.6	Upper Marker

Overall Results for sample 7 : G053

Number of peaks found: 1
 Area 1: 603.5

Region table for sample 7 : G053

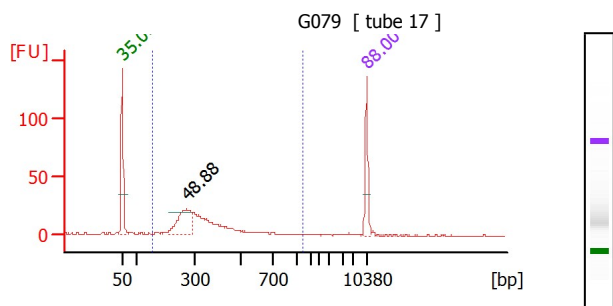
From [bp]	To [bp]	Area	% of Total	Average Size [bp]	Size distribution in CV [%]	Conc. [ng/μl]	Name	Molarity [nmol/l]
150	1,200	603.5	98	351	32.2	54.58	Region 1	256.4

150 1,200 603.5 98 351 32.2 54.58 Region 1 256.4

Assay Class: DNA 7500
 Data Path: C:\...-23\2100 expert_DNA 7500_DE13804163_2016-05-23_11-55-13.xad

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Electropherogram Summary Continued ...



Peak table for sample 8 :

Peak	Size [bp]	Conc. [ng/μl]	Molarity [nmol/l]	Observations
1	50	8.30	251.5	Lower Marker
2	272	5.83	32.5	
3	10,380	4.20	0.6	Upper Marker

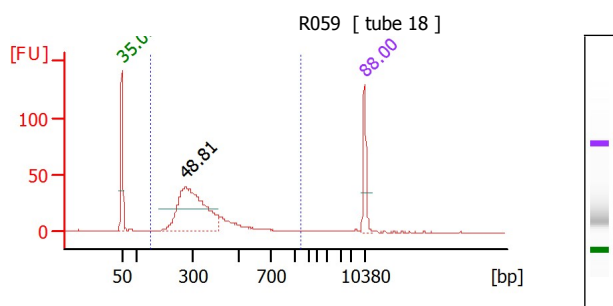
Overall Results for sample 8 : G079

Number of peaks found: 1
 Area 1: 148.9

Region table for sample 8 : G079

From [bp]	To [bp]	Area Total	% of Total	Average Size [bp]	Size distribution in CV [%]	Conc. [ng/μl]	Name	Molarity [nmol/l]
150	1,200	148.9	91	349	35.6	13.78	Region 1	65.9

150 1,200 148.9 91 349 35.6 13.78 Region 1 65.9



Peak table for sample 9 :

Peak	Size [bp]	Conc. [ng/μl]	Molarity [nmol/l]	Observations
1	50	8.30	251.5	Lower Marker
2	270	20.23	113.3	
3	10,380	4.20	0.6	Upper Marker

Overall Results for sample 9 : R059

Number of peaks found: 1
 Area 1: 260.0

Region table for sample 9 : R059

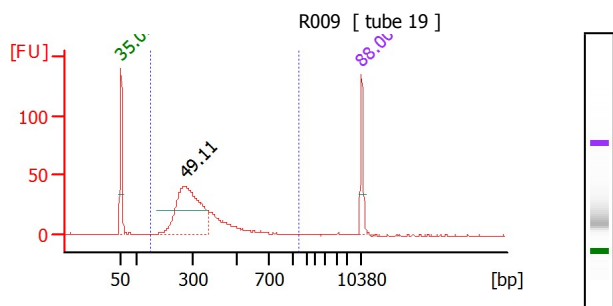
From [bp]	To [bp]	Area Total	% of Total	Average Size [bp]	Size distribution in CV [%]	Conc. [ng/μl]	Name	Molarity [nmol/l]
150	1,200	260.0	93	348	33.7	22.94	Region 1	109.0

150 1,200 260.0 93 348 33.7 22.94 Region 1 109.0

Assay Class: DNA 7500
 Data Path: C:\...-23\2100 expert_DNA 7500_DE13804163_2016-05-23_11-55-13.xad

Created: 5/23/2016 11:55:12 AM
 Modified: 5/23/2016 2:12:05 PM

Electropherogram Summary Continued ...



Peak table for sample 10 :

Peak	Size [bp]	Conc. [ng/μl]	Molarity [nmol/l]	Observations
1	50	8.30	251.5	Lower Marker
2	275	19.11	105.2	
3	10,380	4.20	0.6	Upper Marker

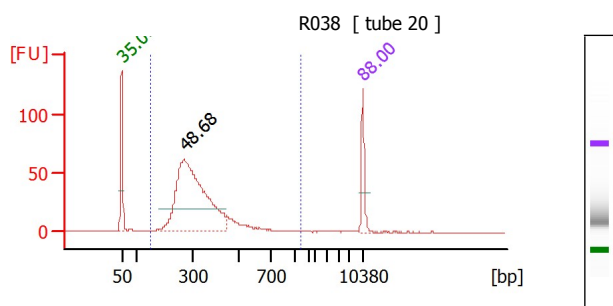
Overall Results for sample 10 : R009

Number of peaks found: 1
 Area 1: 275.6

Region table for sample 10 : R009

From [bp]	To [bp]	Area [bp]	% of Total	Average Size [bp]	Size distribution in CV [%]	Conc. [ng/μl]	Name	Molarity [nmol/l]
150	1,200	275.6	95	345	33.0	24.75	Region 1	118.5

150 1,200 275.6 95 345 33.0 24.75 Region 1 118.5



Peak table for sample 11 :

Peak	Size [bp]	Conc. [ng/μl]	Molarity [nmol/l]	Observations
1	50	8.30	251.5	Lower Marker
2	268	35.61	201.0	
3	10,380	4.20	0.6	Upper Marker

Overall Results for sample 11 : R038

Number of peaks found: 1
 Area 1: 389.4

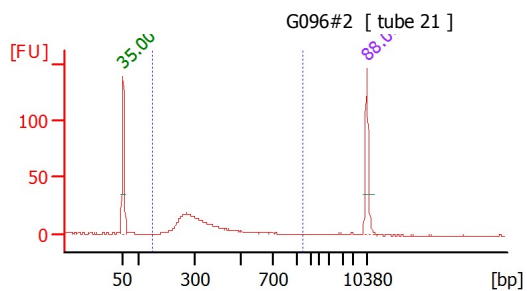
Region table for sample 11 : R038

From [bp]	To [bp]	Area [bp]	% of Total	Average Size [bp]	Size distribution in CV [%]	Conc. [ng/μl]	Name	Molarity [nmol/l]
150	1,200	389.4	97	335	30.8	36.99	Region 1	180.3

150 1,200 389.4 97 335 30.8 36.99 Region 1 180.3

Assay Class: DNA 7500
Data Path: C:\...-23\2100 expert_DNA 7500_DE13804163_2016-05-23_11-55-13.xad

Created: 5/23/2016 11:55:12 AM
Modified: 5/23/2016 2:12:05 PM

Electropherogram Summary Continued ...**Peak table for sample 12 :**

Peak	Size [bp]	Conc. [ng/μl]
1	50	8.30
2	10,380	4.20

G096#2

Molarity [nmol/l]	Observations
251.5	Lower Marker
0.6	Upper Marker

Overall Results for sample 12 : G096#2

Number of peaks found: 0
Area 1: 127.9

Region table for sample 12 : G096#2

From [bp]	To [bp]	Area [bp]	% of Total	Average Size [bp]	Size distribution in CV [%]	Conc. [ng/μl]	Name	Molarity [nmol/l]
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150	1,200	127.9	87	355	39.6	9.82	Region 1	47.1
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Assay Class: DNA 7500
Data Path: C:\...-23\2100 expert_DNA 7500_DE13804163_2016-05-23_11-55-13.xad

Created: 5/23/2016 11:55:12 AM
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Gel Image