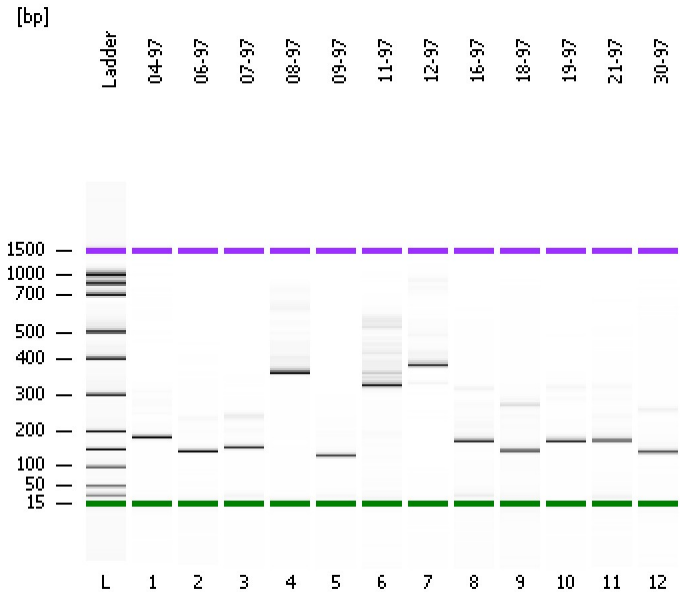


Assay Class: DNA 1000
 Data Path: C:\...-16\2100 expert_DNA 1000_DE72901399_2015-11-16_09-53-21.xad

Created: 11/16/2015 9:53:20 AM
 Modified: 2/2/2016 8:53:35 AM

Electrophoresis File Run Summary



Instrument Information:

Instrument Name: DE72901399 Firmware: C.01.069
 Serial#: DE72901399 Type: G2939A

Assay Information:

Assay Origin Path: C:\Program Files\Agilent\2100 bioanalyzer\2100 expert\assays\dsDNA\DNA 1000 Series II.xsy

Assay Class: DNA 1000
 Version: 2.3
 Assay Comments: DNA Analysis 25 -1000 bp

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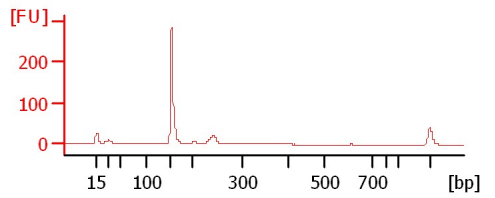
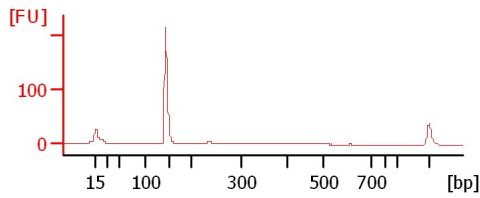
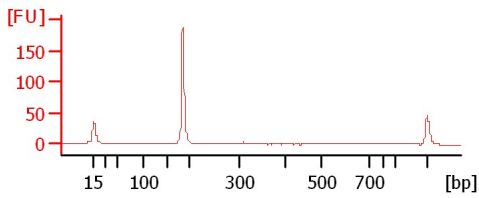
Chip Information:

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

04-97

06-97

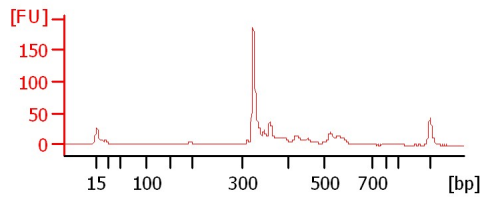
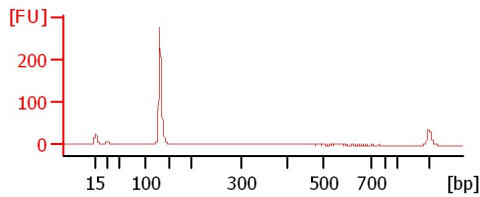
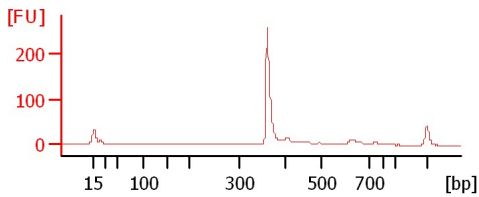
07-97



08-97

09-97

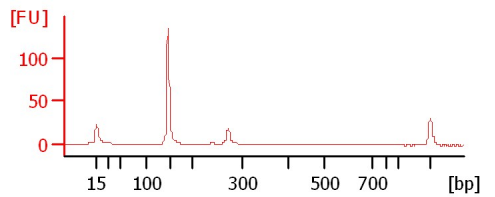
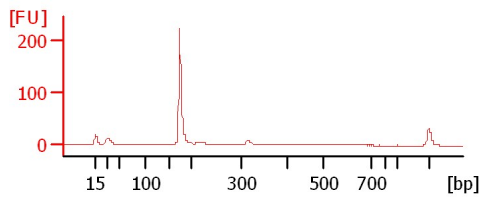
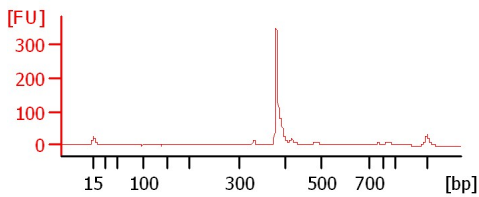
11-97



12-97

16-97

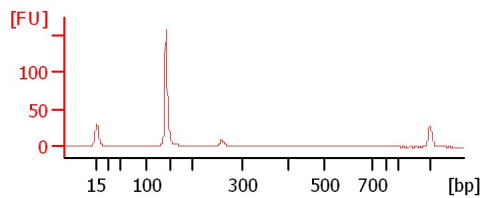
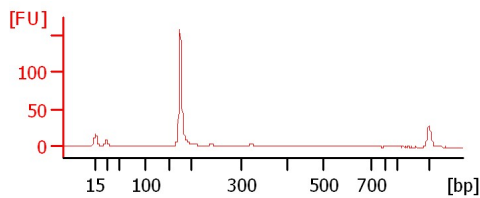
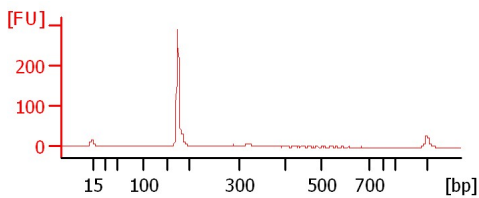
18-97



19-97

21-97

30-97



Assay Class: DNA 1000
 Data Path: C:\...-16\2100 expert_DNA 1000_DE72901399_2015-11-16_09-53-21.xad

Created: 11/16/2015 9:53:20 AM
 Modified: 2/2/2016 8:53:35 AM

Electrophoresis File Run Summary (Chip Summary)

Sample Name	Sample Comment	Rest. Digest	Status Observations	Result Label	Result Color
04-97		<input type="checkbox"/>	✓		
06-97		<input type="checkbox"/>	✓		
07-97		<input type="checkbox"/>	✓		
08-97		<input type="checkbox"/>	✓		
09-97		<input type="checkbox"/>	✓		
11-97		<input type="checkbox"/>	✓		
12-97		<input type="checkbox"/>	✓		
16-97		<input type="checkbox"/>	✓		
18-97		<input type="checkbox"/>	✓		
19-97		<input type="checkbox"/>	✓		
21-97		<input type="checkbox"/>	✓		
30-97		<input type="checkbox"/>	✓		
Ladder		<input type="checkbox"/>	✓		

Chip Lot #

Reagent Kit Lot #

Chip Comments :

Assay Class: DNA 1000
Data Path: C:\...-16\2100 expert_DNA 1000_DE72901399_2015-11-16_09-53-21.xad

Created: 11/16/2015 9:53:20 AM
Modified: 2/2/2016 8:53:35 AM

Electrophoresis Assay Details

General Analysis Settings

Number of Available Sample and Ladder Wells (Max.) : 13
Minimum Visible Range [s] : 30
Maximum Visible Range [s] : 129
Start Analysis Time Range [s] : 30
End Analysis Time Range [s] : 128.95
Ladder Concentration [ng/μl] : 44
Uses Standard Area for Ladder Fragments
Lower Marker Concentration [ng/μl] : 4.2
Upper Marker Concentration [ng/μl] : 2.1
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] : 30
Integration End Time [s] : 128.95
Slope Threshold : 0.5
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

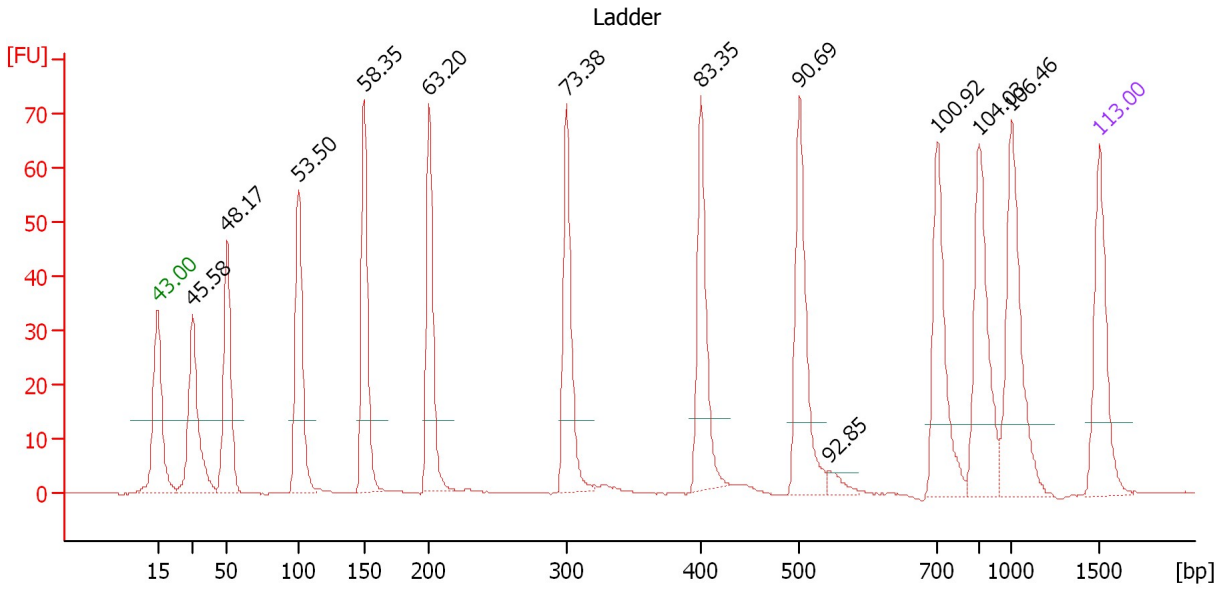
Ladder

Ladder Peak	Size	Area
1	15	25
2	25	26
3	50	34
4	100	41
5	150	45
6	200	52
7	300	63
8	400	76
9	500	83
10	700	88
11	850	86
12	1000	90
13	1500	52

Assay Class: DNA 1000
 Data Path: C:\...-16\2100 expert_DNA 1000_DE72901399_2015-11-16_09-53-21.xad

Created: 11/16/2015 9:53:20 AM
 Modified: 2/2/2016 8:53:35 AM

Electropherogram Summary



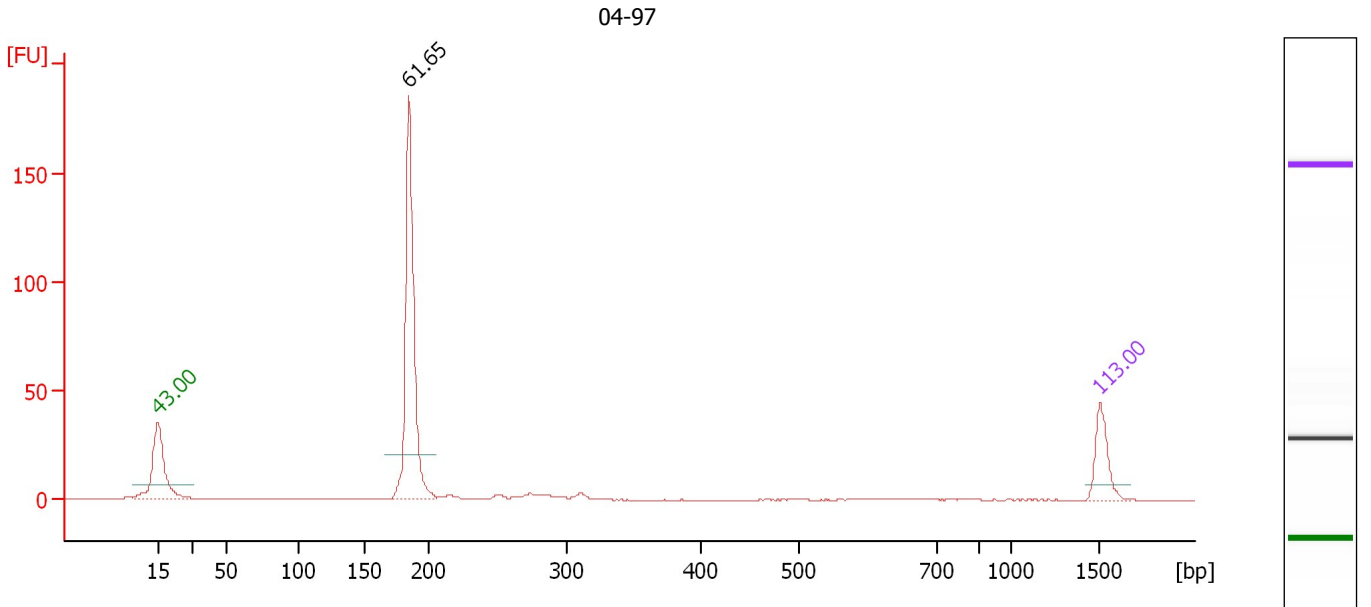
Peak table for Ladder

Peak	Size [bp]	Conc. [ng/μl]	Molarity [nmol/l]	Observations
1	15	4.20	424.2	Lower Marker
2	25	4.00	242.4	Ladder Peak
3	50	4.00	121.2	Ladder Peak
4	100	4.00	60.6	Ladder Peak
5	150	4.00	40.4	Ladder Peak
6	200	4.00	30.3	Ladder Peak
7	300	4.00	20.2	Ladder Peak
8	400	4.00	15.2	Ladder Peak
9	500	4.00	12.1	Ladder Peak
10	542	0.00	0.0	
11	700	4.00	8.7	Ladder Peak
12	850	4.00	7.1	Ladder Peak
13	1,000	4.00	6.1	Ladder Peak
14	1,500	2.10	2.1	Upper Marker

Assay Class: DNA 1000
 Data Path: C:\...-16\2100 expert_DNA 1000_DE72901399_2015-11-16_09-53-21.xad

Created: 11/16/2015 9:53:20 AM
 Modified: 2/2/2016 8:53:35 AM

Electropherogram Summary Continued ...



Overall Results for sample 1 : 04-97

Number of peaks found: 1

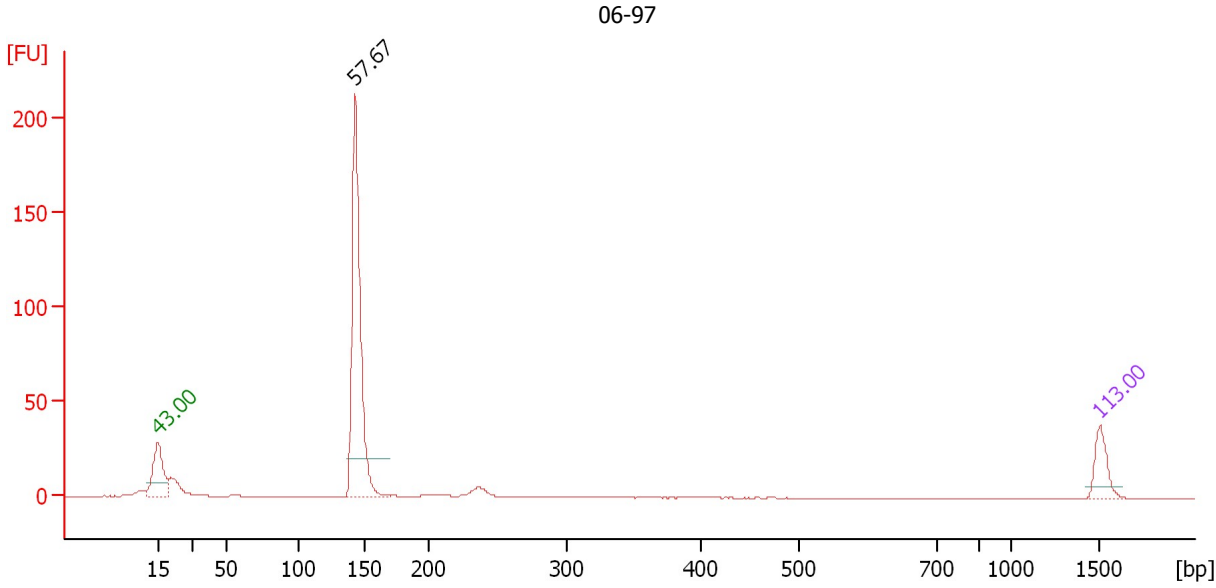
Peak table for sample 1 : 04-97

Peak	Size [bp]	Conc. [ng/μl]	Molarity [nmol/l]	Observations
1	15	4.20	424.2	Lower Marker
2	184	11.71	96.4	
3	1,500	2.10	2.1	Upper Marker

Assay Class: DNA 1000
 Data Path: C:\...-16\2100 expert_DNA 1000_DE72901399_2015-11-16_09-53-21.xad

Created: 11/16/2015 9:53:20 AM
 Modified: 2/2/2016 8:53:35 AM

Electropherogram Summary Continued ...



Overall Results for sample 2 : 06-97

Number of peaks found: 1

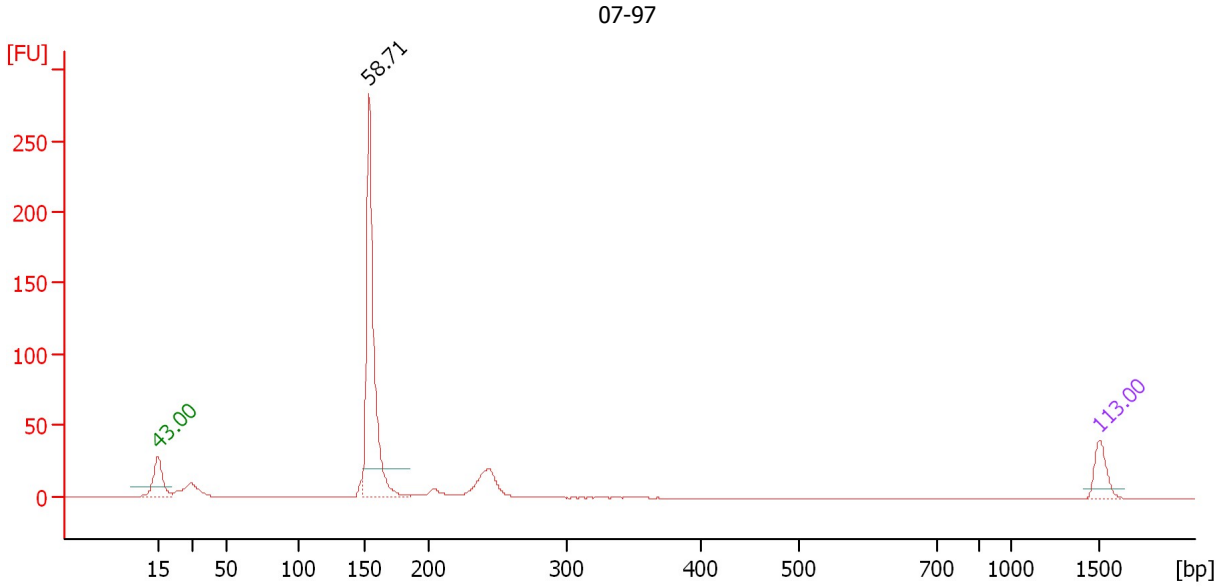
Peak table for sample 2 : 06-97

Peak	Size [bp]	Conc. [ng/μl]	Molarity [nmol/l]	Observations
1	15	4.20	424.2	Lower Marker
2	143	17.37	184.0	
3	1,500	2.10	2.1	Upper Marker

Assay Class: DNA 1000
 Data Path: C:\...-16\2100 expert_DNA 1000_DE72901399_2015-11-16_09-53-21.xad

Created: 11/16/2015 9:53:20 AM
 Modified: 2/2/2016 8:53:35 AM

Electropherogram Summary Continued ...



Overall Results for sample 3 : 07-97

Number of peaks found: 1

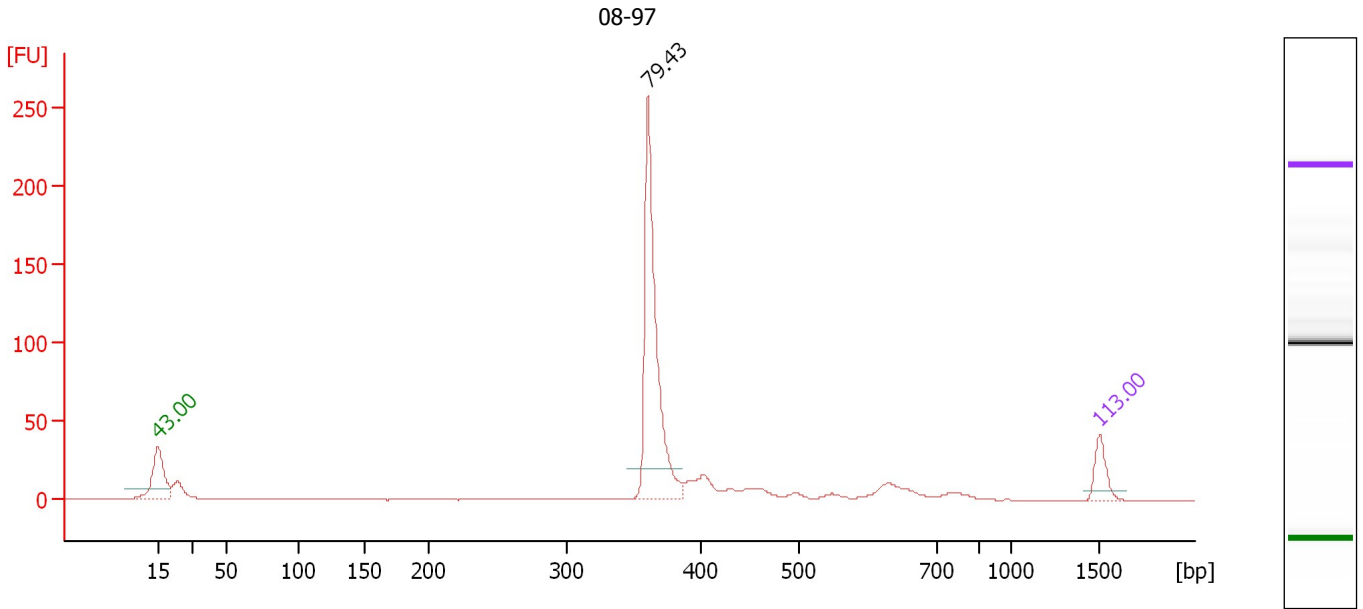
Peak table for sample 3 : 07-97

Peak	Size [bp]	Conc. [ng/μl]	Molarity [nmol/l]	Observations
1	15	4.20	424.2	Lower Marker
2	154	18.84	185.6	
3	1,500	2.10	2.1	Upper Marker

Assay Class: DNA 1000
 Data Path: C:\...-16\2100 expert_DNA 1000_DE72901399_2015-11-16_09-53-21.xad

Created: 11/16/2015 9:53:20 AM
 Modified: 2/2/2016 8:53:35 AM

Electropherogram Summary Continued ...



Overall Results for sample 4 : 08-97

Number of peaks found: 1

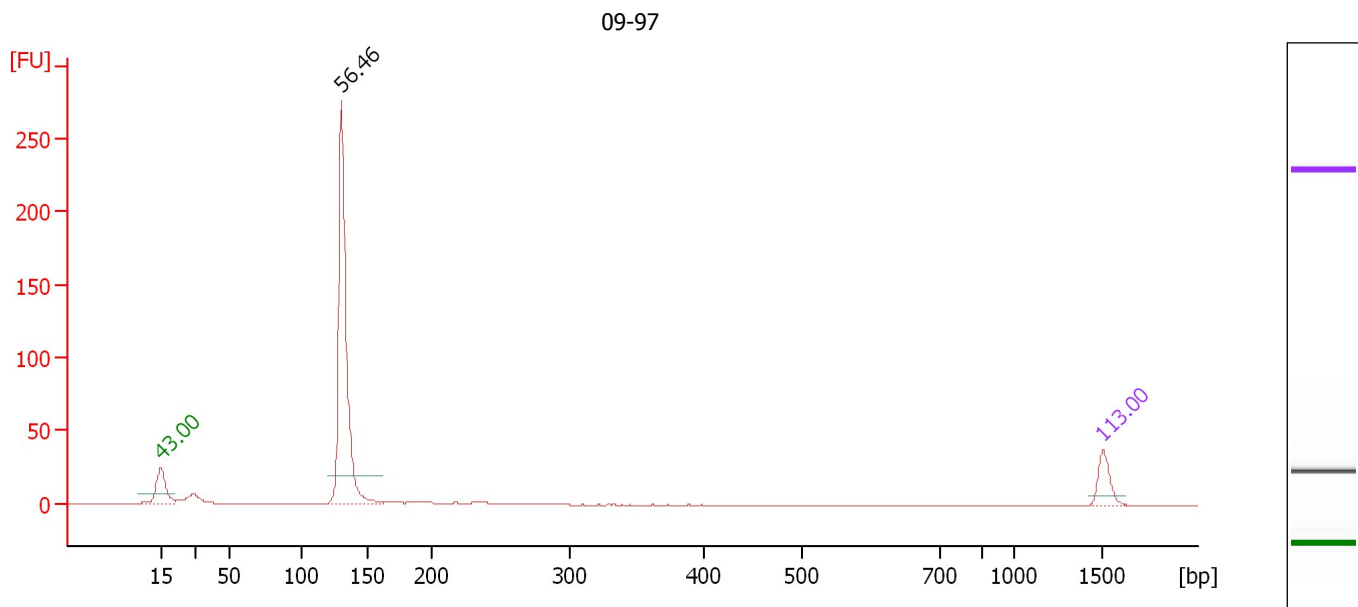
Peak table for sample 4 : 08-97

Peak	Size [bp]	Conc. [ng/μl]	Molarity [nmol/l]	Observations
1	15	4.20	424.2	Lower Marker
2	361	17.68	74.3	
3	1,500	2.10	2.1	Upper Marker

Assay Class: DNA 1000
 Data Path: C:\...-16\2100 expert_DNA 1000_DE72901399_2015-11-16_09-53-21.xad

Created: 11/16/2015 9:53:20 AM
 Modified: 2/2/2016 8:53:35 AM

Electropherogram Summary Continued ...



Overall Results for sample 5 : 09-97

Number of peaks found: 1

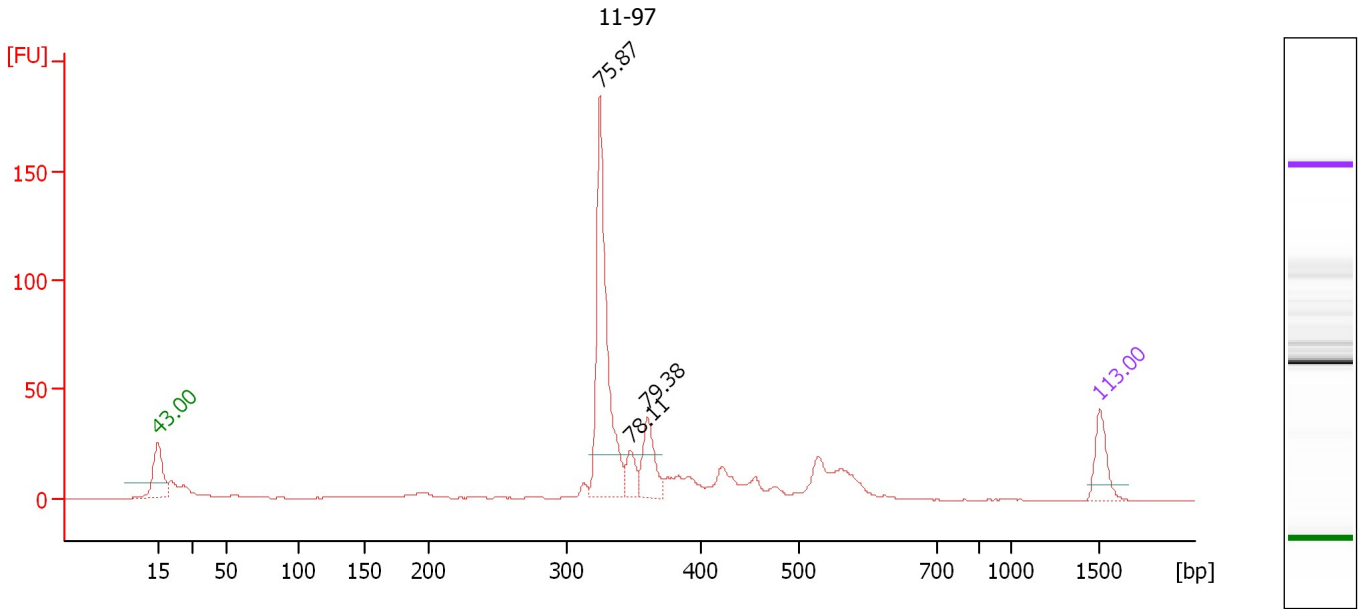
Peak table for sample 5 : 09-97

Peak	Size [bp]	Conc. [ng/μl]	Molarity [nmol/l]	Observations
1	15	4.20	424.2	Lower Marker
2	131	22.35	259.4	
3	1,500	2.10	2.1	Upper Marker

Assay Class: DNA 1000
 Data Path: C:\...-16\2100 expert_DNA 1000_DE72901399_2015-11-16_09-53-21.xad

Created: 11/16/2015 9:53:20 AM
 Modified: 2/2/2016 8:53:35 AM

Electropherogram Summary Continued ...



Overall Results for sample 6 : 11-97

Number of peaks found: 3

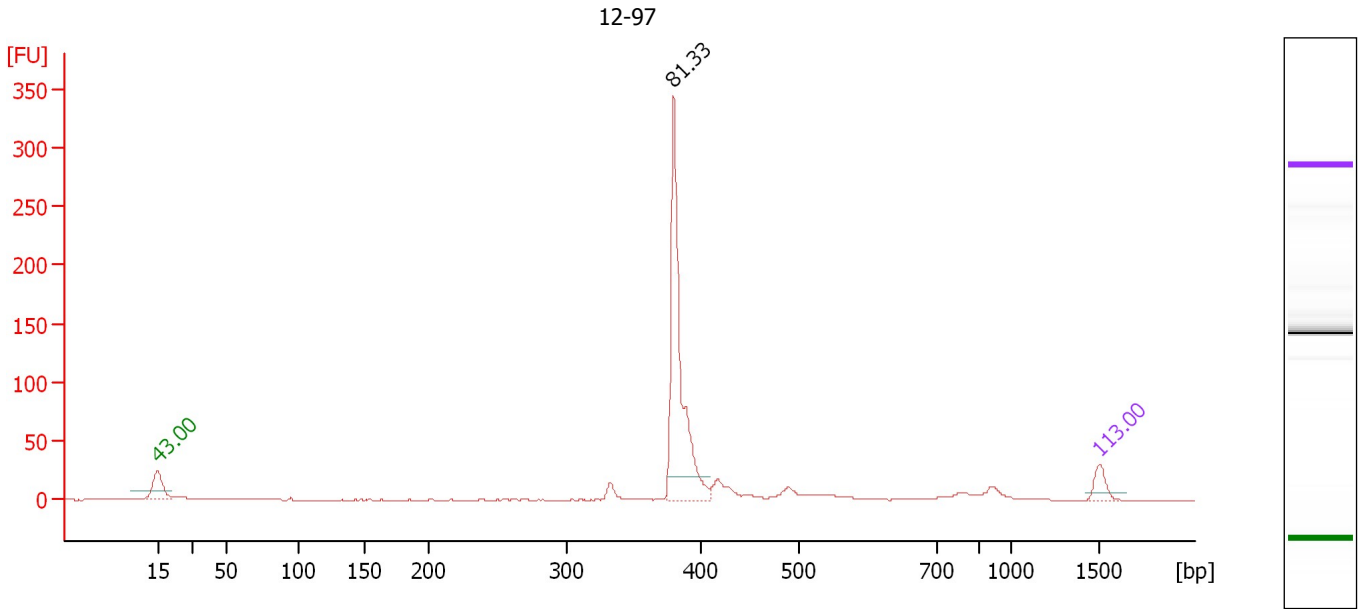
Peak table for sample 6 : 11-97

Peak	Size [bp]	Conc. [ng/μl]	Molarity [nmol/l]	Observations
1	15	4.20	424.2	Lower Marker
2	325	12.39	57.8	
3	347	1.33	5.8	
4	360	2.74	11.5	
5	1,500	2.10	2.1	Upper Marker

Assay Class: DNA 1000
 Data Path: C:\...-16\2100 expert_DNA 1000_DE72901399_2015-11-16_09-53-21.xad

Created: 11/16/2015 9:53:20 AM
 Modified: 2/2/2016 8:53:35 AM

Electropherogram Summary Continued ...



Overall Results for sample 7 : 12-97

Number of peaks found: 1

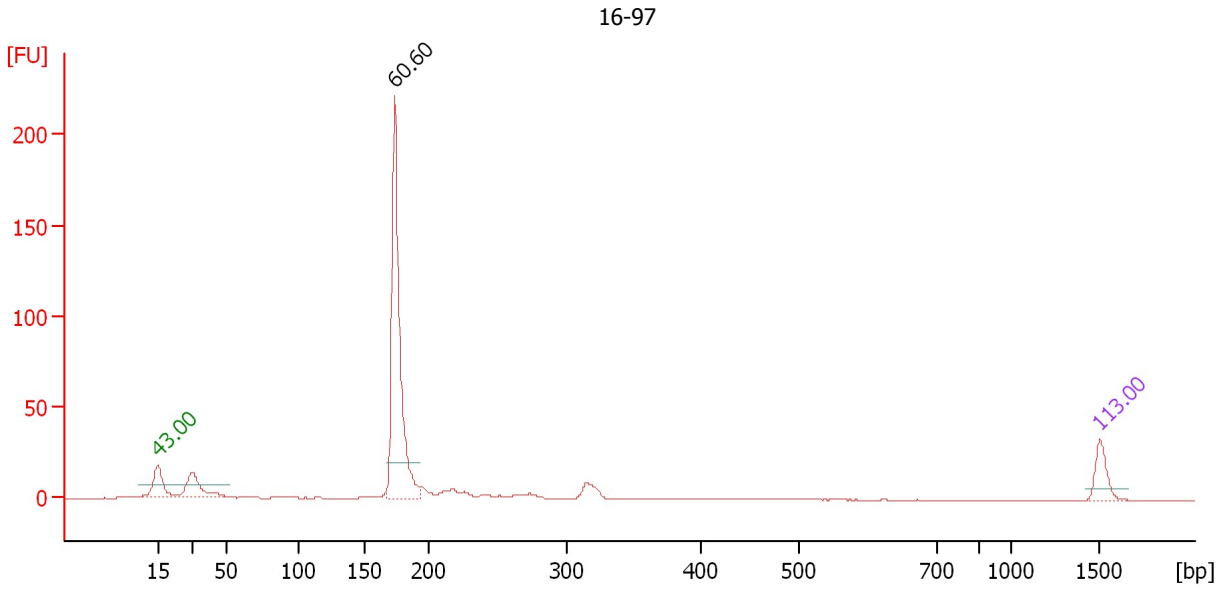
Peak table for sample 7 : 12-97

Peak	Size [bp]	Conc. [ng/μl]	Molarity [nmol/l]	Observations
1	15	4.20	424.2	Lower Marker
2	380	26.78	106.9	
3	1,500	2.10	2.1	Upper Marker

Assay Class: DNA 1000
 Data Path: C:\...-16\2100 expert_DNA 1000_DE72901399_2015-11-16_09-53-21.xad

Created: 11/16/2015 9:53:20 AM
 Modified: 2/2/2016 8:53:35 AM

Electropherogram Summary Continued ...



Overall Results for sample 8 : 16-97

Number of peaks found: 1

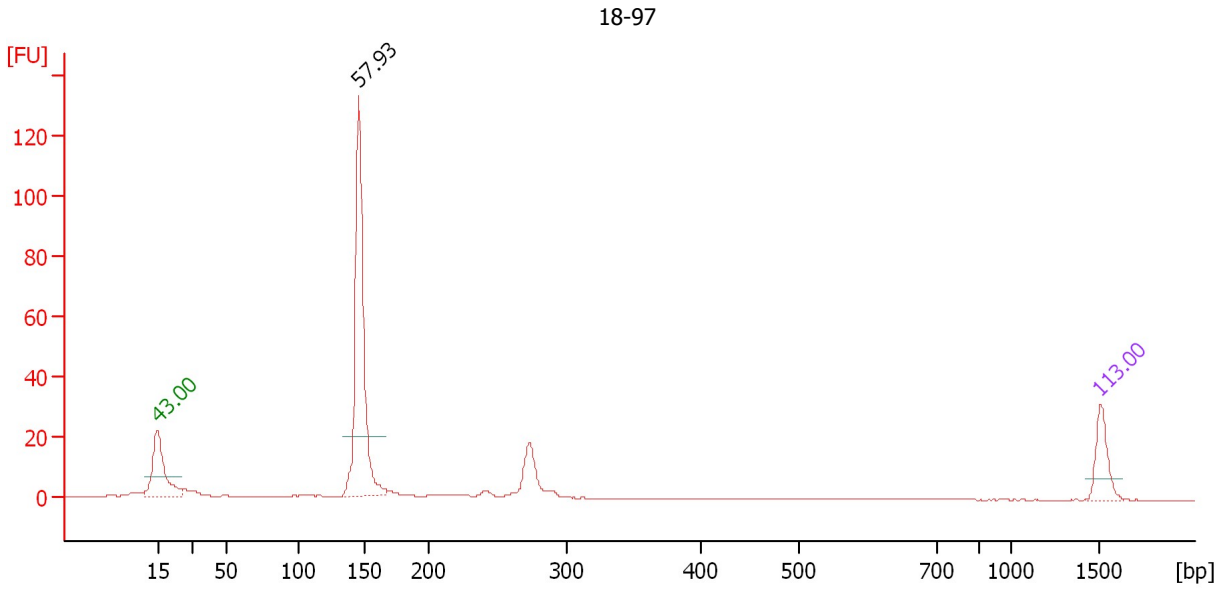
Peak table for sample 8 : 16-97

Peak	Size [bp]	Conc. [ng/μl]	Molarity [nmol/l]	Observations
1	15	4.20	424.2	Lower Marker
2	173	19.57	171.3	
3	1,500	2.10	2.1	Upper Marker

Assay Class: DNA 1000
 Data Path: C:\...-16\2100 expert_DNA 1000_DE72901399_2015-11-16_09-53-21.xad

Created: 11/16/2015 9:53:20 AM
 Modified: 2/2/2016 8:53:35 AM

Electropherogram Summary Continued ...



Overall Results for sample 9 : 18-97

Number of peaks found: 1

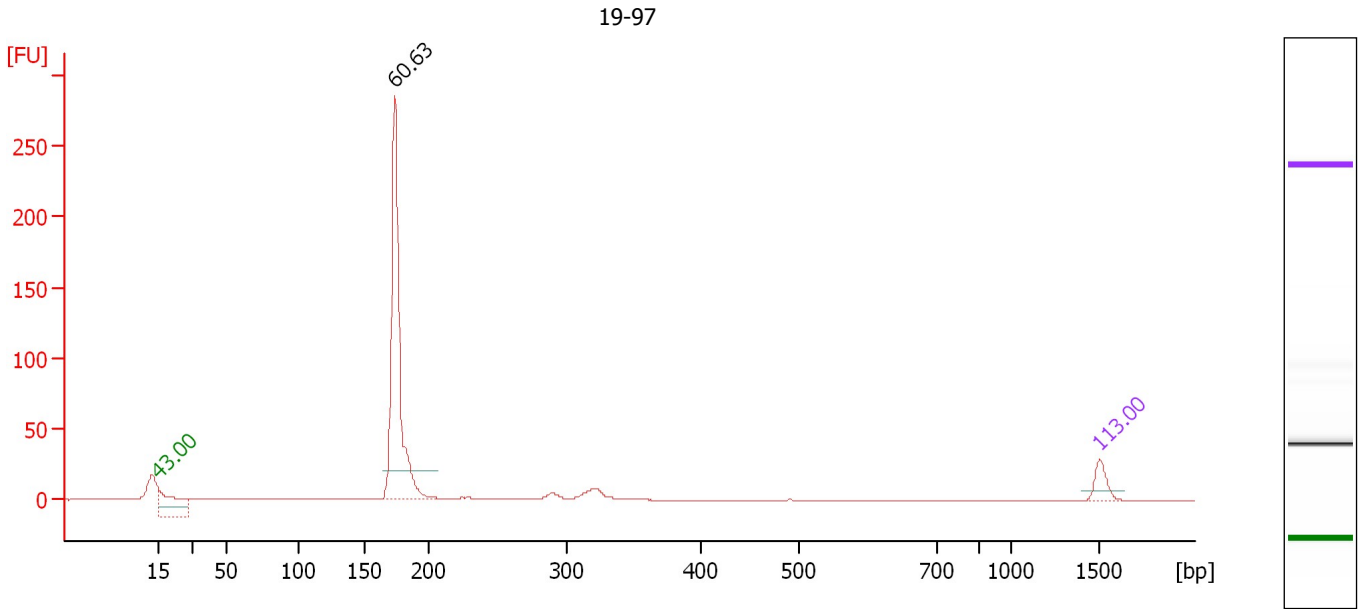
Peak table for sample 9 : 18-97

Peak	Size [bp]	Conc. [ng/μl]	Molarity [nmol/l]	Observations
1	15	4.20	424.2	Lower Marker
2	146	13.69	142.3	
3	1,500	2.10	2.1	Upper Marker

Assay Class: DNA 1000
 Data Path: C:\...-16\2100 expert_DNA 1000_DE72901399_2015-11-16_09-53-21.xad

Created: 11/16/2015 9:53:20 AM
 Modified: 2/2/2016 8:53:35 AM

Electropherogram Summary Continued ...



Overall Results for sample 10 : 19-97

Number of peaks found: 1

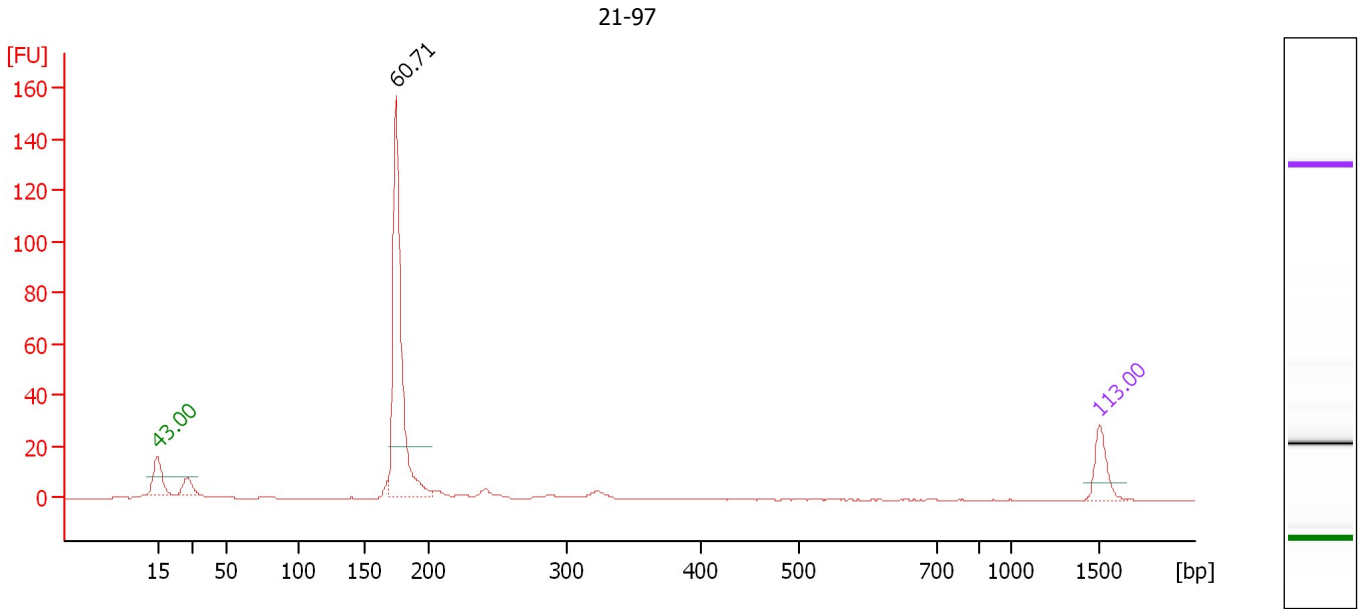
Peak table for sample 10 : 19-97

Peak	Size [bp]	Conc. [ng/μl]	Molarity [nmol/l]	Observations
1	15	4.20	424.2	Lower Marker
2	173	28.60	249.8	
3	1,500	2.10	2.1	Upper Marker

Assay Class: DNA 1000
 Data Path: C:\...-16\2100 expert_DNA 1000_DE72901399_2015-11-16_09-53-21.xad

Created: 11/16/2015 9:53:20 AM
 Modified: 2/2/2016 8:53:35 AM

Electropherogram Summary Continued ...



Overall Results for sample 11 : 21-97

Number of peaks found: 1

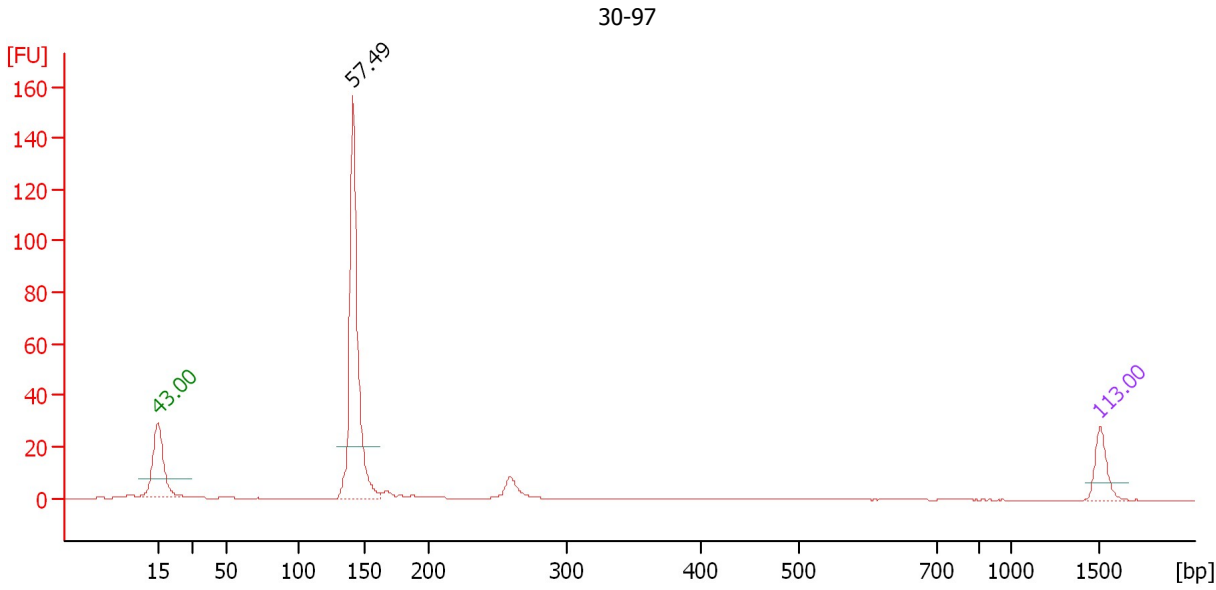
Peak table for sample 11 : 21-97

Peak	Size [bp]	Conc. [ng/μl]	Molarity [nmol/l]	Observations
1	15	4.20	424.2	Lower Marker
2	174	16.34	142.1	
3	1,500	2.10	2.1	Upper Marker

Assay Class: DNA 1000
 Data Path: C:\...-16\2100 expert_DNA 1000_DE72901399_2015-11-16_09-53-21.xad

Created: 11/16/2015 9:53:20 AM
 Modified: 2/2/2016 8:53:35 AM

Electropherogram Summary Continued ...



Overall Results for sample 12 : 30-97

Number of peaks found: 1

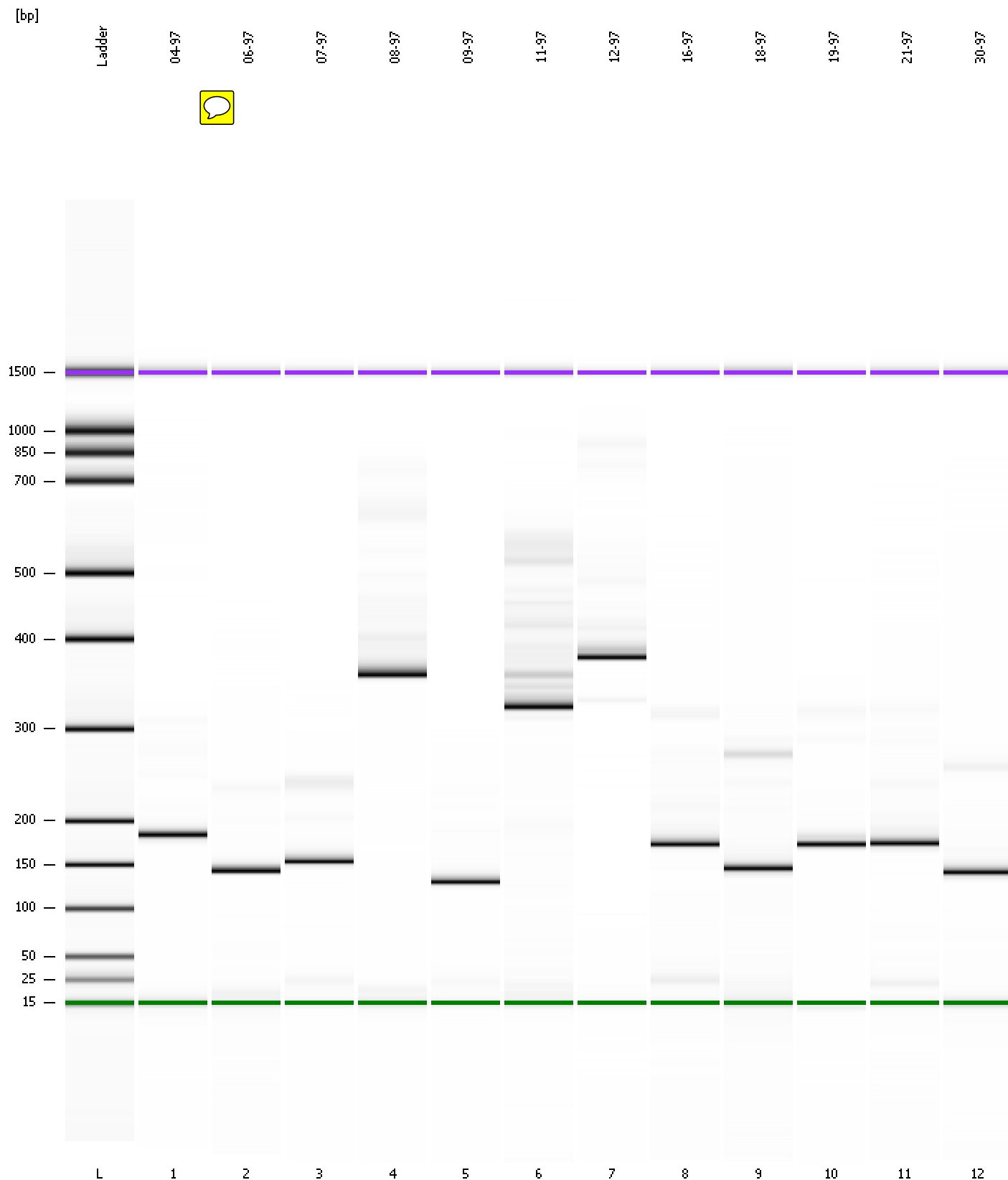
Peak table for sample 12 : 30-97

Peak	Size [bp]	Conc. [ng/μl]	Molarity [nmol/l]	Observations
1	15	4.20	424.2	Lower Marker
2	141	17.75	190.4	
3	1,500	2.10	2.1	Upper Marker

Assay Class: DNA 1000
Data Path: C:\...-16\2100 expert_DNA 1000_DE72901399_2015-11-16_09-53-21.xad

Created: 11/16/2015 9:53:20 AM
Modified: 2/2/2016 8:53:35 AM

Gel Image



Assay Class: DNA 1000
 Data Path: C:\...-16\2100 expert_DNA 1000_DE72901399_2015-11-16_09-53-21.xad

Created: 11/16/2015 9:53:20 AM
 Modified: 2/2/2016 8:53:35 AM

Run Logbook

Description	Number	Source	Category	Sub Category	Time	Time Zone	User	Host
Run ended on port 2 (Number of wells acquired: 13)		Instrument	Run		11/16/2015 10:35:12 AM	(GMT +01:00) W. Europe Standard Time	Administrator	V-RCF-G1-AG2100
Run started on port 2 (File: C:\Program Files\Agilent\2100 bioanalyzer\2100 expert\Data\2015-11-16\2100 expert_DNA 1000_DE72901399_2015-11-16_09-53-21.xad)		Instrument	Run		11/16/2015 9:53:27 AM	(GMT +01:00) W. Europe Standard Time	Administrator	V-RCF-G1-AG2100
Product Number : G2939A		Instrument	Run		11/16/2015 9:53:27 AM	(GMT +01:00) W. Europe Standard Time	Administrator	V-RCF-G1-AG2100
Name :		Instrument	Run		11/16/2015 9:53:27 AM	(GMT +01:00) W. Europe Standard Time	Administrator	V-RCF-G1-AG2100
Vendor : Agilent Technologies		Instrument	Run		11/16/2015 9:53:27 AM	(GMT +01:00) W. Europe Standard Time	Administrator	V-RCF-G1-AG2100
Serial# : DE72901399		Instrument	Run		11/16/2015 9:53:27 AM	(GMT +01:00) W. Europe Standard Time	Administrator	V-RCF-G1-AG2100
Firmware : C.01.069		Instrument	Run		11/16/2015 9:53:27 AM	(GMT +01:00) W. Europe Standard Time	Administrator	V-RCF-G1-AG2100
Cartridge : Electrode		Instrument	Run		11/16/2015 9:53:26 AM	(GMT +01:00) W. Europe Standard Time	Administrator	V-RCF-G1-AG2100