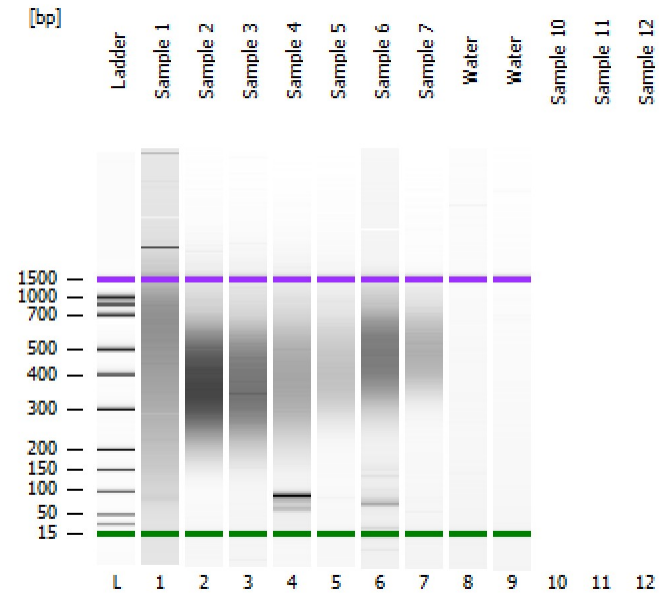
Assay Class: DNA 1000 Created: 16-Apr-20 15:48:57
Data Path: C:\...-16\2100 expert_DNA 1000_DE04103820_2020-04-16_15-48-57.xad Modified: 16-Apr-20 16:27:54

Electrophoresis File Run Summary



Instrument Information:

Instrument Name:	DE04103820	Firmware:	C.01.069
Serial#:	DE04103820	Type:	G2939A

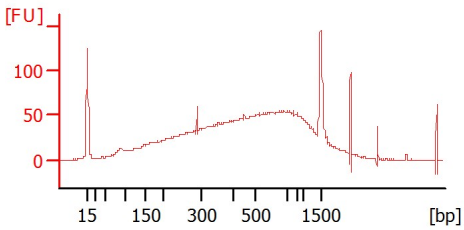
Assay Information:

Assay Origin Path:	C:\Program Files (x86)\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

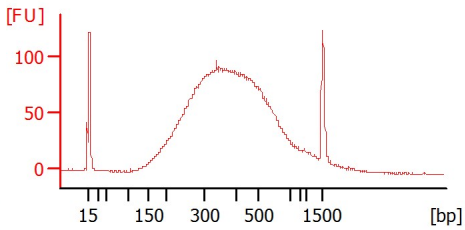
Chip Information:

Chip Lot #:	XC15BK10
Reagent Kit Lot #:	1843
Chip Comments:	2020-M005: Simon Ellerstrand, RAD samples

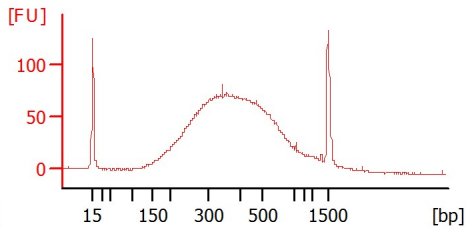
Sample 1



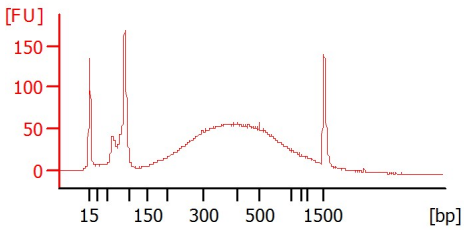
Sample 2



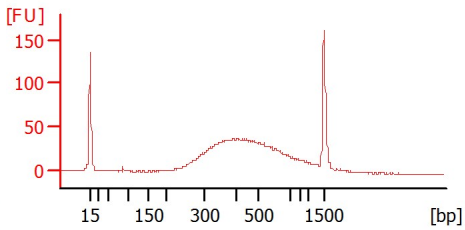
Sample 3



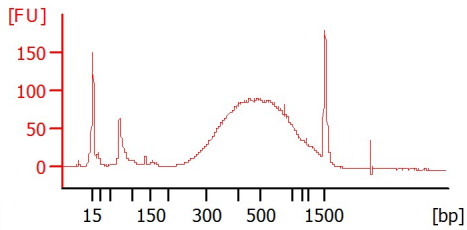
Sample 4



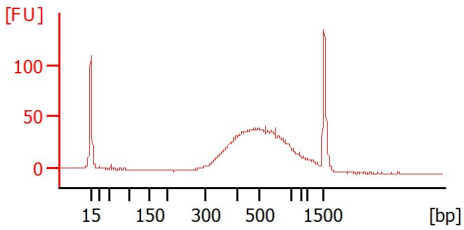
Sample 5



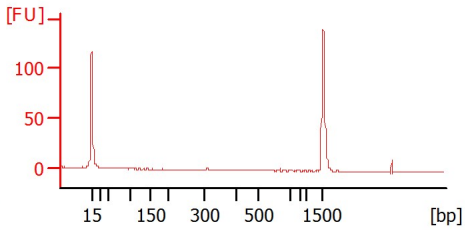
Sample 6



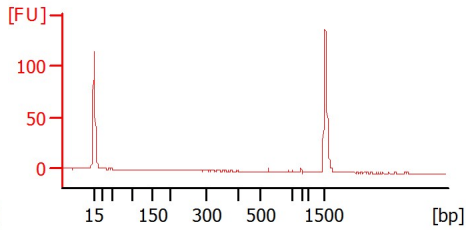
Sample 7



Water



Water



Assay Class: DNA 1000 Created: 16-Apr-20 15:48:57
Data Path: C:\...-16\2100 expert_DNA 1000_DE04103820_2020-04-16_15-48-57.xad Modified: 16-Apr-20 16:27:54

Electrophoresis File Run Summary (Chip Summary)

Sample Name	Sample Comment	Rest. Digest	Status	Observation	Result Label	Result Color
Sample 1		☐	✔			
Sample 2		☐	✔			
Sample 3		☐	✔			
Sample 4		☐	✔			
Sample 5		☐	✔			
Sample 6		☐	✔			
Sample 7		☐	✔			
Water		☐	✔			
Water		☐	✔			
Sample 10		☐				
Sample 11		☐				
Sample 12		☐				
Ladder		☐	✔			

Chip Lot #	Reagent Kit Lot #
XC15BK10	1843

Chip Comments :

2020-M005: Simon Ellerstrand, RAD samples

Assay Class: DNA 1000 Created: 16-Apr-20 15:48:57
Data Path: C:\...-16\2100 expert_DNA 1000_DE04103820_2020-04-16_15-48-57.xad Modified: 16-Apr-20 16:27:54

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

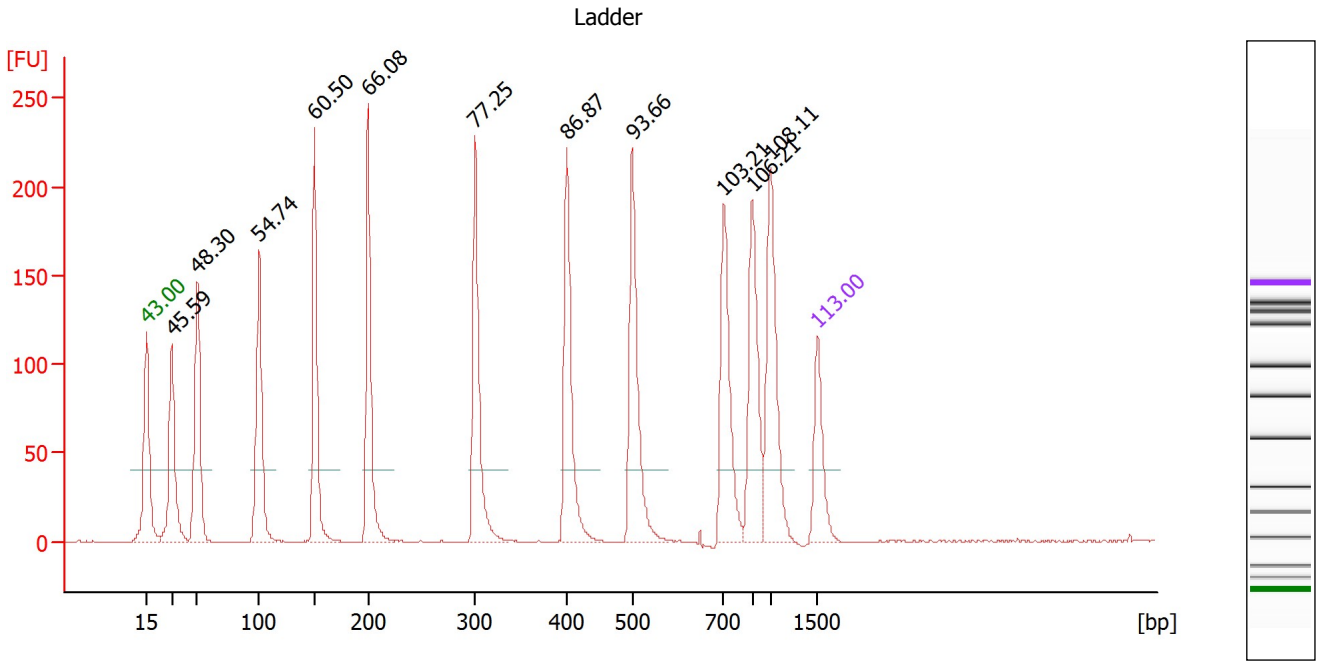
Ladder

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_DE04103820_2020-04-16_15-48-57.xad

Created: 16-Apr-20 15:48:57
Modified: 16-Apr-20 16:27:54

Electropherogram Summary



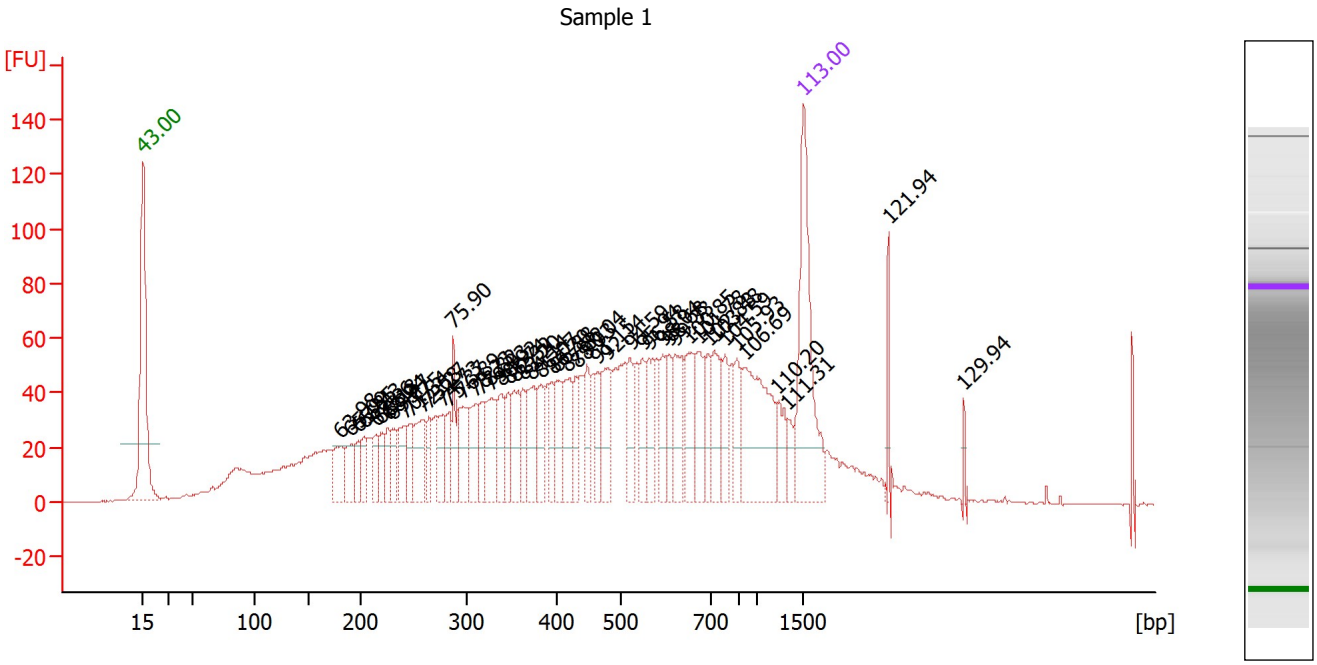
Peak table for Ladder

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		700	4.00	8.7	Ladder Peak
11		850	4.00	7.1	Ladder Peak
12		1,000	4.00	6.1	Ladder Peak
13		1,500	2.10	2.1	Upper Marker

Assay Class: DNA 1000
Data Path: C:\...-16\2100 expert_DNA 1000_DE04103820_2020-04-16_15-48-57.xad

Created: 16-Apr-20 15:48:57
Modified: 16-Apr-20 16:27:54

Electropherogram Summary Continued ...



Overall Results for sample 1 : Sample 1

Number of peaks found: 47

Peak table for sample 1 : Sample 1

Peak	Size [bp]	Conc. [ng/µl]	Molarity [nmol/l]	Observations
1	15	4.20	424.2	Lower Marker
2	181	0.52	4.3	
3	191	0.40	3.2	
4	198	0.27	2.1	
5	203	0.34	2.5	
6	214	0.29	2.0	
7	219	0.29	2.0	
8	226	0.36	2.4	
9	230	0.28	1.8	
10	242	0.42	2.6	
11	247	0.32	1.9	
12	259	0.64	3.8	
13	264	0.30	1.7	
14	277	0.37	2.0	
15	283	0.31	1.6	
16	288	0.62	3.3	
17	297	0.55	2.8	
18	310	0.54	2.7	
19	316	0.33	1.6	
20	328	0.69	3.2	
21	338	0.53	2.4	
22	347	0.36	1.6	
23	353	0.54	2.3	
24	362	0.40	1.7	
25	372	0.64	2.6	
26	381	0.40	1.6	
27	394	0.37	1.4	
28	400	0.48	1.8	
29	414	0.65	2.4	
30	430	0.41	1.4	

Assay Class: DNA 1000 Created: 16-Apr-20 15:48:57
Data Path: C:\...-16\2100 expert_DNA 1000_DE04103820_2020-04-16_15-48-57.xad Modified: 16-Apr-20 16:27:54

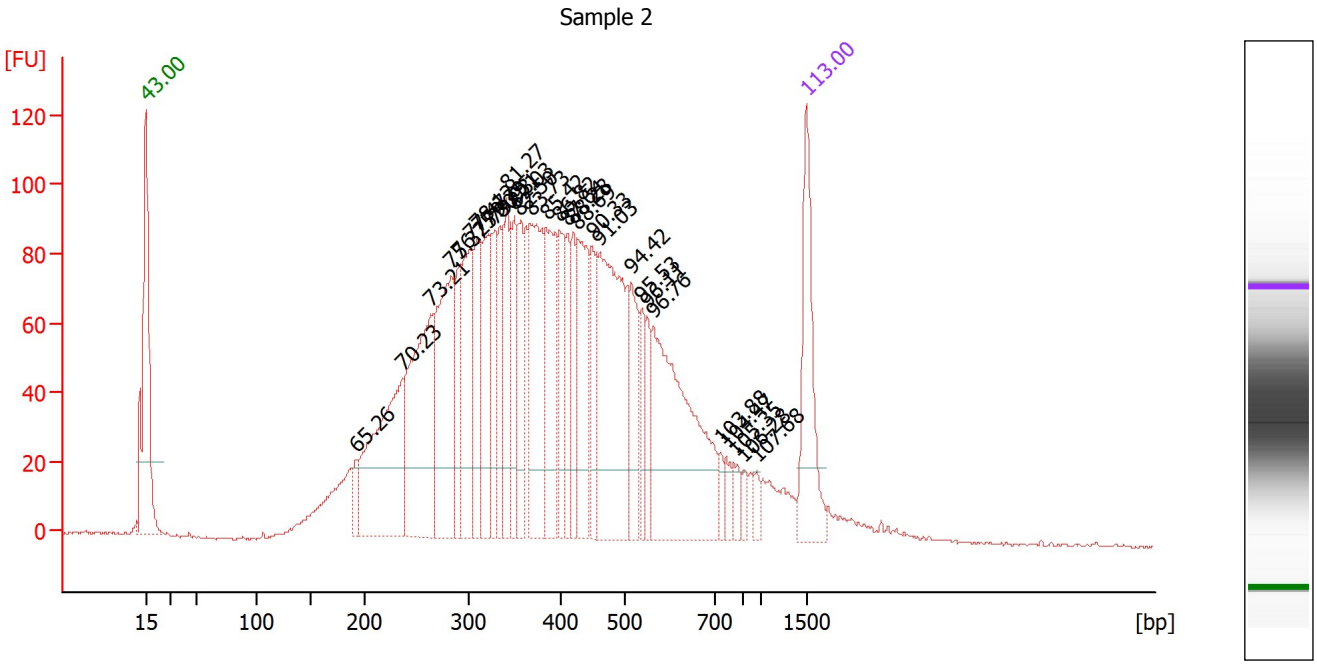
Electropherogram Summary Continued ...

... Peak table for sample 1 : Sample 1

Peak	Size [bp]	Conc. [ng/µl]	Molarity [nmol/l]	Observations
31	447	0.46	1.6	
32	463	0.42	1.4	
33	478	0.63	2.0	
34	520	0.51	1.5	
35	548	0.47	1.3	
36	561	0.62	1.7	
37	592	0.44	1.1	
38	605	0.44	1.1	
39	619	0.66	1.6	
40	650	0.66	1.5	
41	670	0.63	1.4	
42	692	0.47	1.0	
43	713	0.69	1.5	
44	769	0.46	0.9	
45	836	0.49	0.9	
46	888	1.87	3.2	
47	1,213	0.43	0.5	
48	1,327	0.22	0.2	
49	1,500	2.10	2.1	Upper Marker
50	2,414	0.00	0.0	
51	3,232	0.00	0.0	

Assay Class: DNA 1000 Created: 16-Apr-20 15:48:57
Data Path: C:\...-16\2100 expert_DNA 1000_DE04103820_2020-04-16_15-48-57.xad Modified: 16-Apr-20 16:27:54

Electropherogram Summary Continued ...



Overall Results for sample 2 : Sample 2

Number of peaks found: 30

Peak table for sample 2 : Sample 2

Peak	Size [bp]	Conc. [ng/µl]	Molarity [nmol/l]	Observations
1	15	4.20	424.2	Lower Marker
2	193	0.39	3.1	
3	237	3.83	24.5	
4	264	3.90	22.4	
5	283	3.31	17.7	
6	291	1.16	6.0	
7	302	2.30	11.5	
8	309	1.44	7.1	
9	321	1.84	8.7	
10	328	1.13	5.2	
11	334	1.13	5.1	
12	342	1.47	6.5	
13	350	1.22	5.3	
14	355	1.30	5.6	
15	367	2.73	11.3	
16	385	2.14	8.4	
17	400	1.18	4.5	
18	411	0.88	3.2	
19	421	0.87	3.1	
20	427	2.05	7.3	
21	451	1.06	3.6	
22	461	4.37	14.4	
23	516	1.25	3.7	
24	539	0.61	1.7	
25	551	0.58	1.6	
26	565	4.76	12.8	
27	734	0.22	0.5	
28	763	0.32	0.6	
29	807	0.25	0.5	
30	856	0.20	0.3	

Assay Class: DNA 1000 Created: 16-Apr-20 15:48:57
Data Path: C:\...-16\2100 expert_DNA 1000_DE04103820_2020-04-16_15-48-57.xad Modified: 16-Apr-20 16:27:54

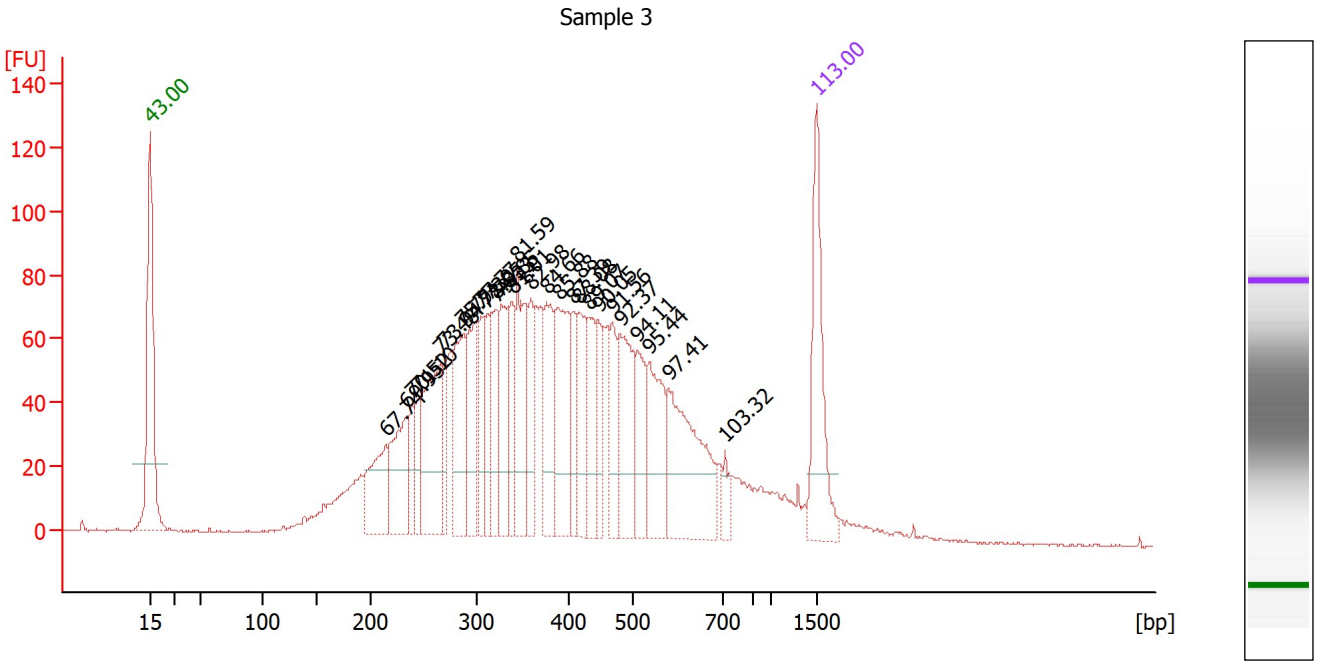
Electropherogram Summary Continued ...

... Peak table for sample 2 : Sample 2

Peak	Size [bp]	Conc. [ng/µl]	Molarity [nmol/l]	Observations
31	967	0.22	0.3	
32	1,500	2.10	2.1	Upper Marker

Assay Class: DNA 1000 Created: 16-Apr-20 15:48:57
Data Path: C:\...-16\2100 expert_DNA 1000_DE04103820_2020-04-16_15-48-57.xad Modified: 16-Apr-20 16:27:54

Electropherogram Summary Continued ...



Overall Results for sample 3 : Sample 3

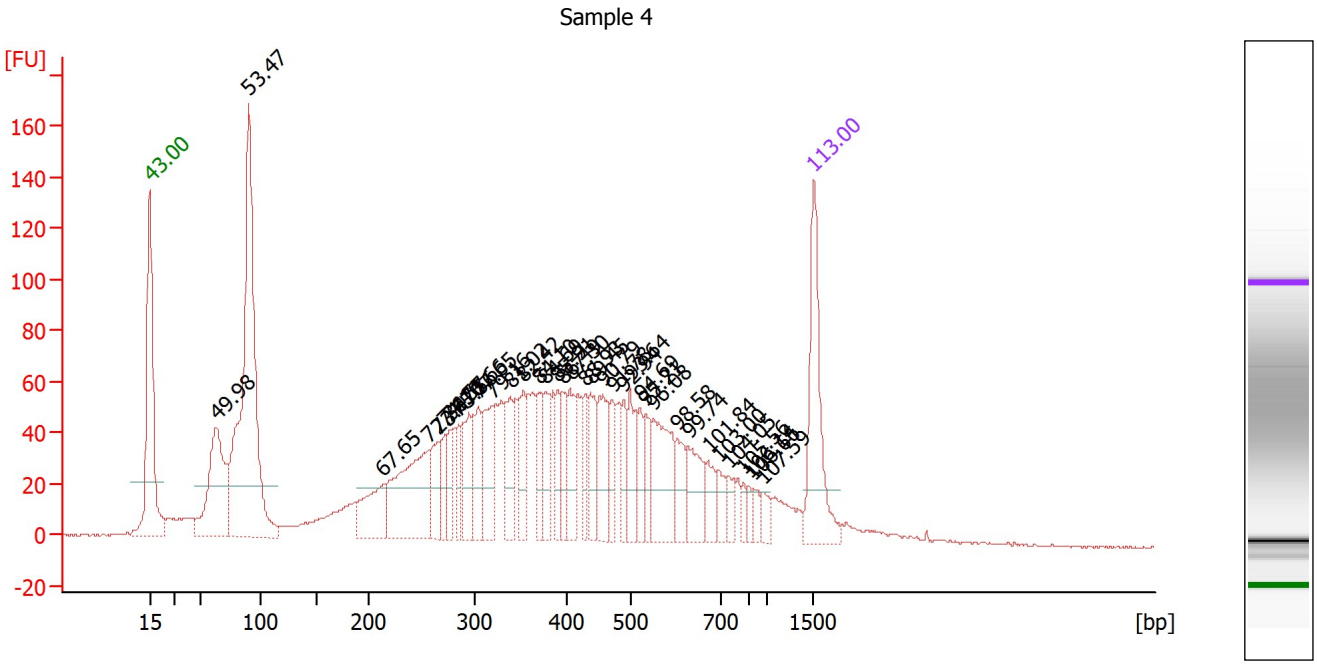
Number of peaks found: 27

Peak table for sample 3 : Sample 3

Peak	Size [bp]	Conc. [ng/µl]	Molarity [nmol/l]	Observations
1	15	4.20	424.2	Lower Marker
2	215	1.36	9.6	
3	235	1.49	9.6	
4	240	0.55	3.4	
5	245	0.53	3.3	
6	266	2.34	13.3	
7	270	0.66	3.7	
8	288	1.70	9.0	
9	301	1.48	7.5	
10	305	0.92	4.6	
11	311	0.77	3.7	
12	322	1.15	5.4	
13	327	1.39	6.4	
14	339	0.84	3.8	
15	345	1.86	8.2	
16	360	0.89	3.8	
17	377	1.35	5.4	
18	390	1.98	7.7	
19	408	0.73	2.7	
20	418	1.23	4.5	
21	432	1.01	3.5	
22	447	0.73	2.5	
23	469	0.93	3.0	
24	481	1.63	5.1	
25	509	1.08	3.2	
26	537	1.57	4.4	
27	579	2.74	7.2	
28	705	0.33	0.7	
29	1,500	2.10	2.1	Upper Marker

Assay Class: DNA 1000 Created: 16-Apr-20 15:48:57
Data Path: C:\...-16\2100 expert_DNA 1000_DE04103820_2020-04-16_15-48-57.xad Modified: 16-Apr-20 16:27:54

Electropherogram Summary Continued ...



Overall Results for sample 4 : Sample 4

Number of peaks found: 36

Peak table for sample 4 : Sample 4

Peak	Size [bp]	Conc. [ng/µl]	Molarity [nmol/l]	Observations
1	15	4.20	424.2	Lower Marker
2	63	2.64	63.5	
3	90	7.29	122.6	
4	214	1.16	8.2	
5	256	2.50	14.8	
6	266	0.77	4.4	
7	272	0.43	2.4	
8	276	0.50	2.7	
9	285	0.47	2.5	
10	295	0.94	4.8	
11	304	0.92	4.6	
12	320	1.13	5.3	
13	339	0.84	3.8	
14	354	0.85	3.6	
15	371	0.57	2.3	
16	377	0.72	2.9	
17	390	0.56	2.2	
18	396	0.55	2.1	
19	406	0.84	3.1	
20	430	0.48	1.7	
21	438	0.75	2.6	
22	458	1.05	3.5	
23	472	0.49	1.6	
24	489	0.51	1.6	
25	500	0.76	2.3	
26	522	0.48	1.4	
27	532	0.54	1.5	
28	551	1.46	4.0	
29	603	0.57	1.4	
30	627	0.92	2.2	

Assay Class: DNA 1000 Created: 16-Apr-20 15:48:57
Data Path: C:\...-16\2100 expert_DNA 1000_DE04103820_2020-04-16_15-48-57.xad Modified: 16-Apr-20 16:27:54

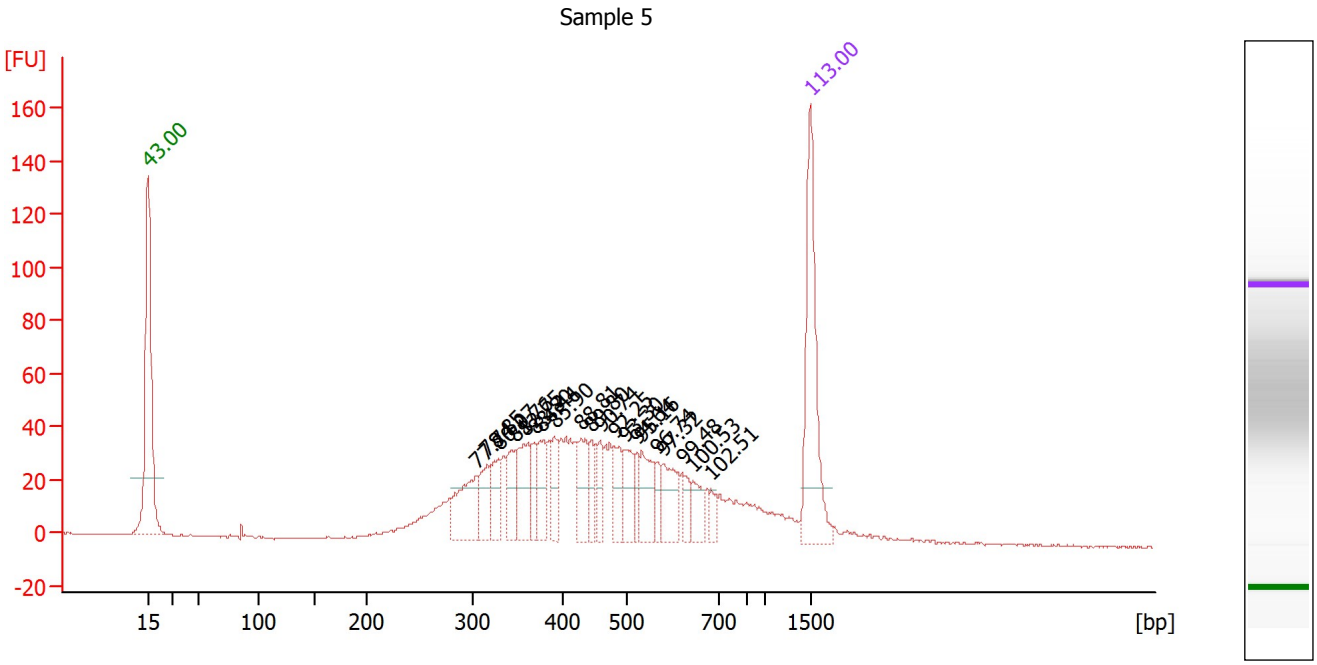
Electropherogram Summary Continued ...

... Peak table for sample 4 : Sample 4

Peak	Size [bp]	Conc. [ng/µl]	Molarity [nmol/l]	Observations
31	671	0.47	1.1	
32	696	0.36	0.8	
33	742	0.29	0.6	
34	817	0.17	0.3	
35	847	0.18	0.3	
36	886	0.21	0.4	
37	959	0.28	0.4	
38	1,500	2.10	2.1	Upper Marker

Assay Class: DNA 1000 Created: 16-Apr-20 15:48:57
Data Path: C:\...-16\2100 expert_DNA 1000_DE04103820_2020-04-16_15-48-57.xad Modified: 16-Apr-20 16:27:54

Electropherogram Summary Continued ...



Overall Results for sample 5 : Sample 5

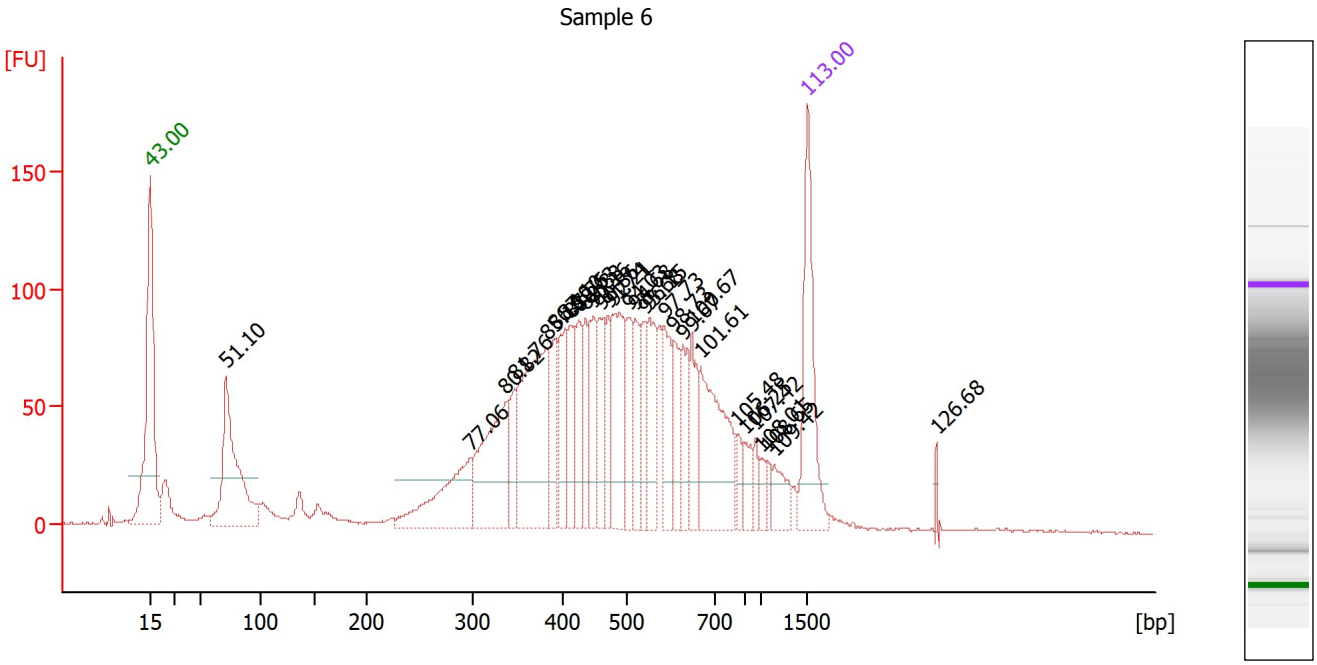
Number of peaks found: 20

Peak table for sample 5 : Sample 5

Peak	Size [bp]	Conc. [ng/µl]	Molarity [nmol/l]	Observations
1	15	4.20	424.2	Lower Marker
2	305	0.95	4.7	
3	317	0.52	2.5	
4	329	0.51	2.4	
5	347	0.50	2.2	
6	357	0.83	3.5	
7	368	0.31	1.3	
8	375	0.53	2.1	
9	390	0.44	1.7	
10	429	0.56	2.0	
11	443	0.35	1.2	
12	457	0.36	1.2	
13	479	0.45	1.4	
14	495	0.48	1.5	
15	521	0.24	0.7	
16	532	0.64	1.8	
17	564	0.24	0.6	
18	577	0.65	1.7	
19	622	0.30	0.7	
20	644	0.35	0.8	
21	685	0.18	0.4	
22	1,500	2.10	2.1	Upper Marker

Assay Class: DNA 1000 Created: 16-Apr-20 15:48:57
Data Path: C:\...-16\2100 expert_DNA 1000_DE04103820_2020-04-16_15-48-57.xad Modified: 16-Apr-20 16:27:54

Electropherogram Summary Continued ...



Overall Results for sample 6 : Sample 6

Number of peaks found: 29

Peak table for sample 6 : Sample 6

Peak	Size [bp]	Conc. [ng/µl]	Molarity [nmol/l]	Observations
1	15	4.20	424.2	Lower Marker
2	72	2.93	61.8	
3	298	1.85	9.4	
4	337	2.29	10.3	
5	347	0.67	2.9	
6	382	3.21	12.7	
7	392	0.91	3.5	
8	403	1.07	4.0	
9	413	0.90	3.3	
10	426	0.84	3.0	
11	436	0.77	2.7	
12	448	0.98	3.3	
13	459	0.97	3.2	
14	472	0.64	2.1	
15	479	1.68	5.3	
16	508	0.81	2.4	
17	521	0.80	2.3	
18	542	0.67	1.9	
19	552	1.15	3.2	
20	585	1.08	2.8	
21	606	0.74	1.9	
22	626	0.78	1.9	
23	647	0.93	2.2	
24	666	2.39	5.4	
25	814	0.31	0.6	
26	853	0.39	0.7	
27	946	0.29	0.5	
28	992	0.23	0.4	
29	1,056	0.18	0.3	
30	1,134	0.54	0.7	

Assay Class: DNA 1000 Created: 16-Apr-20 15:48:57
Data Path: C:\...-16\2100 expert_DNA 1000_DE04103820_2020-04-16_15-48-57.xad Modified: 16-Apr-20 16:27:54

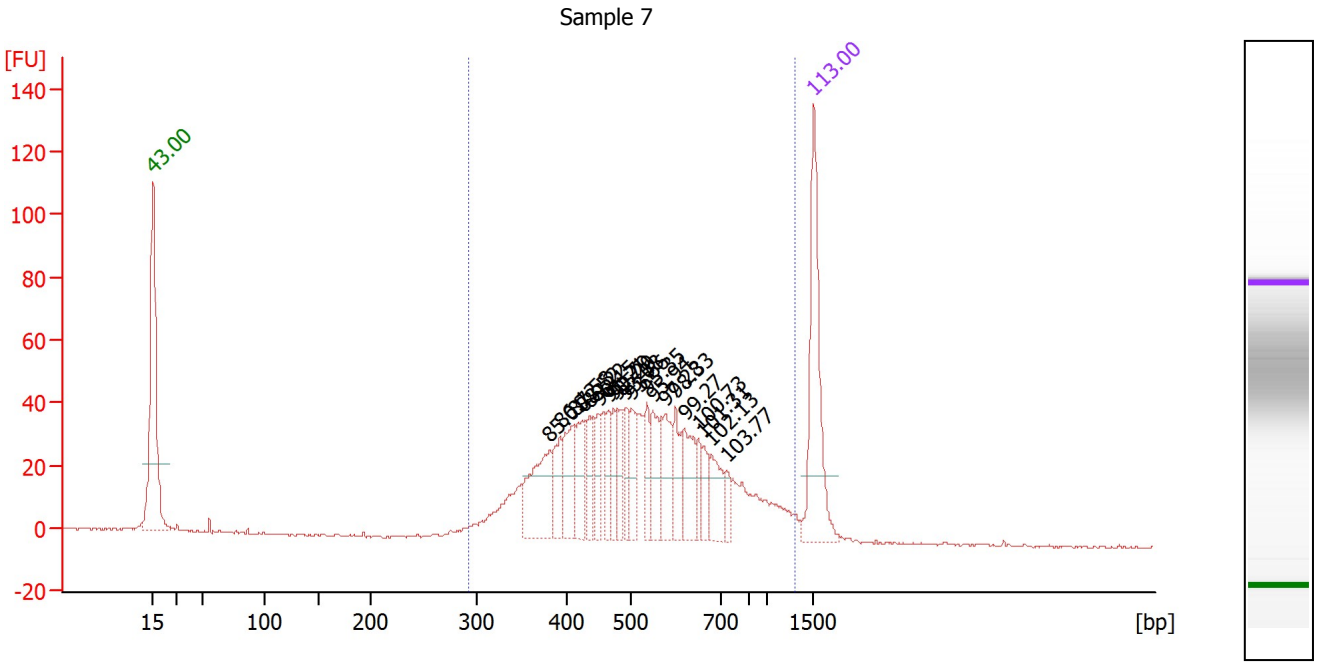
Electropherogram Summary Continued ...

... Peak table for sample 6 : Sample 6

Peak	Size [bp]	Conc. [ng/µl]	Molarity [nmol/l]	Observations
31	1,500	2.10	2.1	Upper Marker
32	2,898	0.00	0.0	

Assay Class: DNA 1000 Created: 16-Apr-20 15:48:57
Data Path: C:\...-16\2100 expert_DNA 1000_DE04103820_2020-04-16_15-48-57.xad Modified: 16-Apr-20 16:27:54

Electropherogram Summary Continued ...



Overall Results for sample 7 : Sample 7

Number of peaks found: 20 Area 1: 739.7

Peak table for sample 7 : Sample 7

Peak	Size [bp]	Conc. [ng/µl]	Molarity [nmol/l]	Observations
1	15	4.20	424.2	Lower Marker
2	381	1.28	5.1	
3	392	0.55	2.1	
4	411	0.82	3.0	
5	424	0.65	2.3	
6	435	0.41	1.4	
7	448	0.45	1.5	
8	464	0.38	1.3	
9	472	0.42	1.4	
10	479	0.42	1.3	
11	491	0.38	1.2	
12	500	0.49	1.5	
13	535	0.44	1.3	
14	548	0.68	1.9	
15	576	0.66	1.7	
16	598	0.59	1.5	
17	617	0.77	1.9	
18	648	0.28	0.6	
19	660	0.33	0.8	
20	677	0.59	1.3	
21	728	0.24	0.5	
22	1,500	2.10	2.1	Upper Marker

Region table for sample 7 : Sample 7

From [bp]	To [bp]	Area	% of Total	Average Size [bp]	Size distribution in CV [%]	Conc. [ng/µl]	Color
293	1,286	739.7	99	544	32.1	13.92	

Assay Class: DNA 1000 Created: 16-Apr-20 15:48:57
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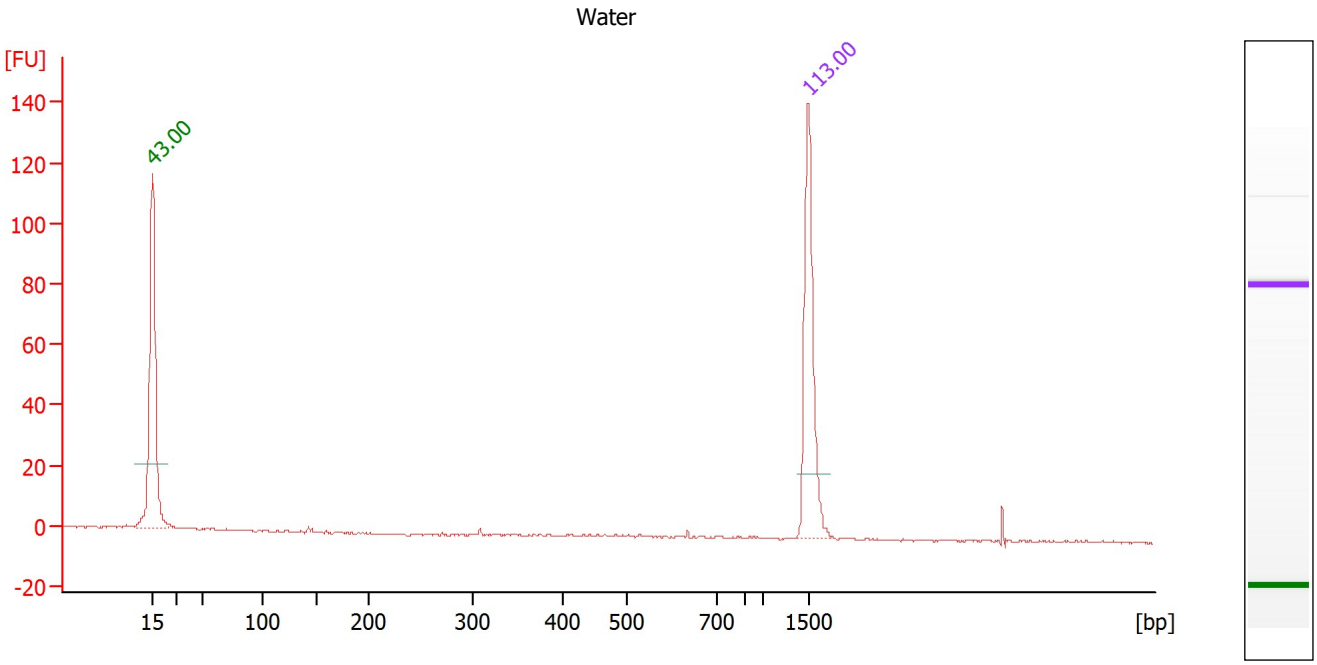
Electropherogram Summary Continued ...



Overall Results for sample 8 : Water

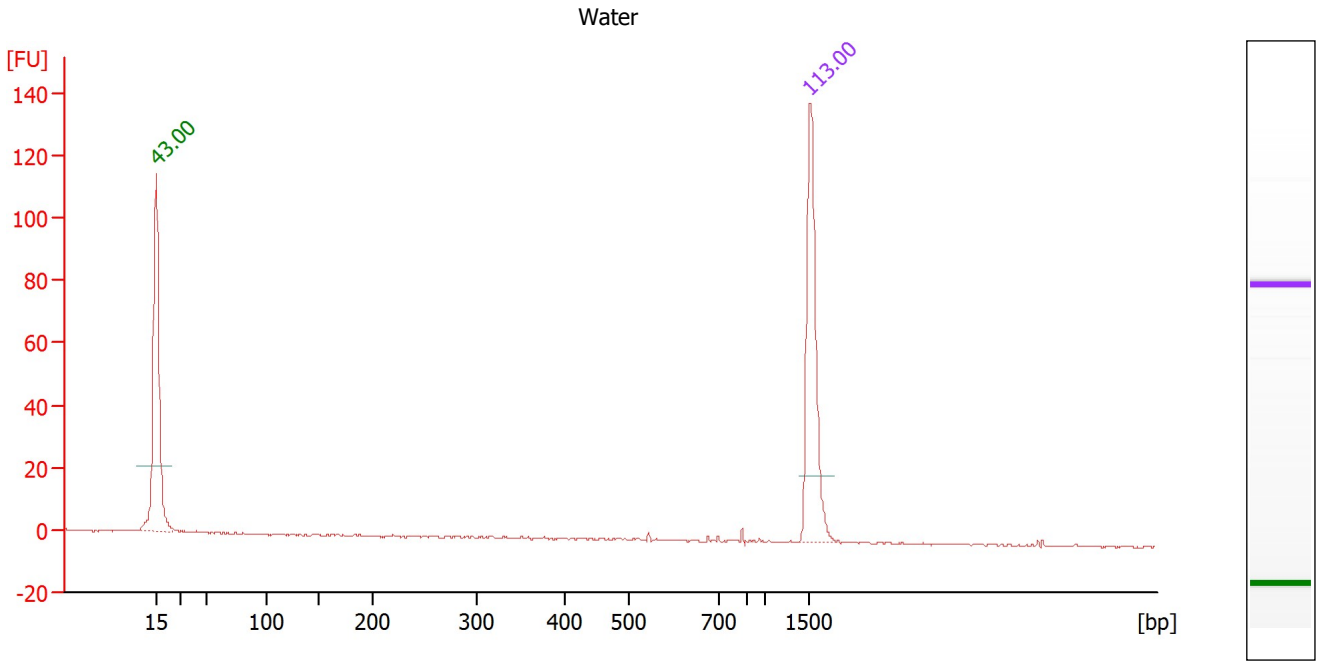
Number of peaks found: 0

Peak table for sample 8 : Water

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

Assay Class: DNA 1000 Created: 16-Apr-20 15:48:57
Data Path: C:\...-16\2100 expert_DNA 1000_DE04103820_2020-04-16_15-48-57.xad Modified: 16-Apr-20 16:27:54

Electropherogram Summary Continued ...



Overall Results for sample 9 : Water

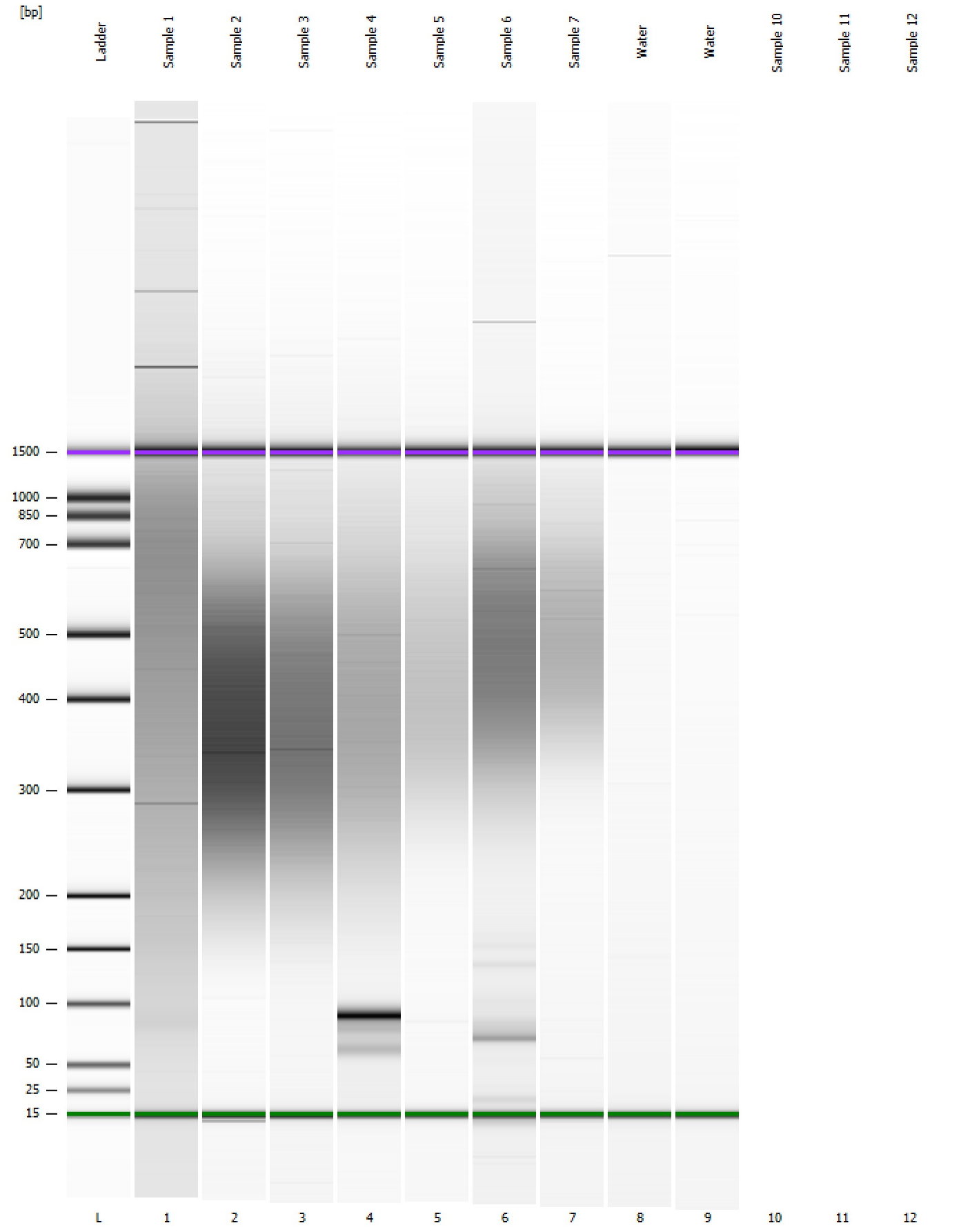
Number of peaks found: 0

Peak table for sample 9 : Water

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

Assay Class: DNA 1000 Created: 16-Apr-20 15:48:57
Data Path: C:\...-16\2100 expert_DNA 1000_DE04103820_2020-04-16_15-48-57.xad Modified: 16-Apr-20 16:27:54

Gel Image

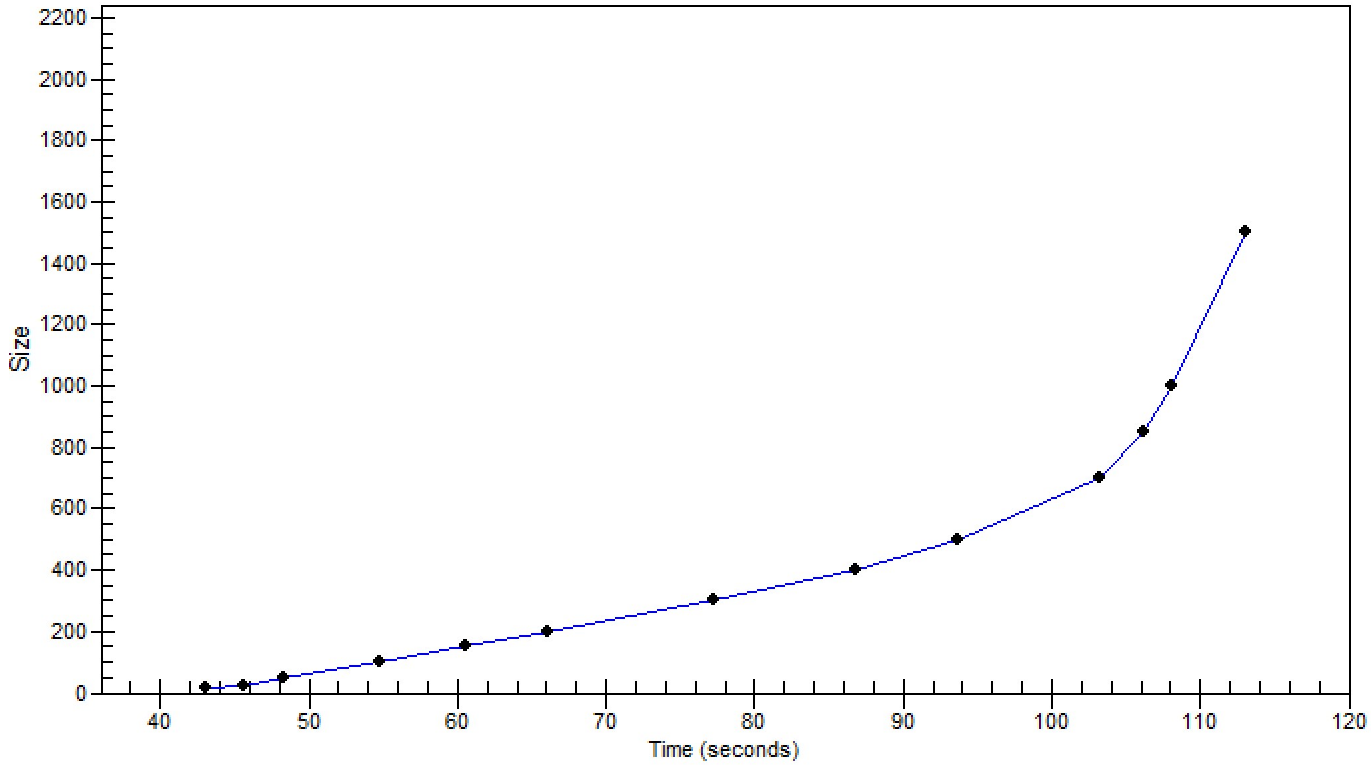


  Printed: 16-Apr-20 16:28:25

Assay Class: DNA 1000 Created: 16-Apr-20 15:48:57
Data Path: C:\...-16\2100 expert_DNA 1000_DE04103820_2020-04-16_15-48-57.xad Modified: 16-Apr-20 16:27:54

Curves

Standard Curve



Assay Class: DNA 1000 Created: 16-Apr-20 15:48:57
Data Path: C:\...-16\2100 expert_DNA 1000_DE04103820_2020-04-16_15-48-57.xad Modified: 16-Apr-20 16:27:54

Run Logbook

Description	Number	Source	Category	Sub Category	Time	Time Zone	User	Host
Run ended on port 1 (Number of wells acquired: 10)		Instrument	Run		16-Apr-20 16:22:50	(GMT +02:00) Västeuropa, normaltid	User	Illumina-BioAna
Run started on port 1 (File: C:\Users\User\Documents\BioAnalyzer\2020-04-16\2100 expert_DNA 1000_DE04103820_2020-04-16_15-48-57.xad)		Instrument	Run		16-Apr-20 15:49:03	(GMT +02:00) Västeuropa, normaltid	User	Illumina-BioAna
Product Number : G2939A		Instrument	Run		16-Apr-20 15:49:03	(GMT +02:00) Västeuropa, normaltid	User	Illumina-BioAna
Name :		Instrument	Run		16-Apr-20 15:49:03	(GMT +02:00) Västeuropa, normaltid	User	Illumina-BioAna
Vendor : Agilent Technologies		Instrument	Run		16-Apr-20 15:49:03	(GMT +02:00) Västeuropa, normaltid	User	Illumina-BioAna
Serial# : DE04103820		Instrument	Run		16-Apr-20 15:49:03	(GMT +02:00) Västeuropa, normaltid	User	Illumina-BioAna
Firmware : C.01.069		Instrument	Run		16-Apr-20 15:49:03	(GMT +02:00) Västeuropa, normaltid	User	Illumina-BioAna
Cartridge : Electrode		Instrument	Run		16-Apr-20 15:49:03	(GMT +02:00) Västeuropa, normaltid	User	Illumina-BioAna

