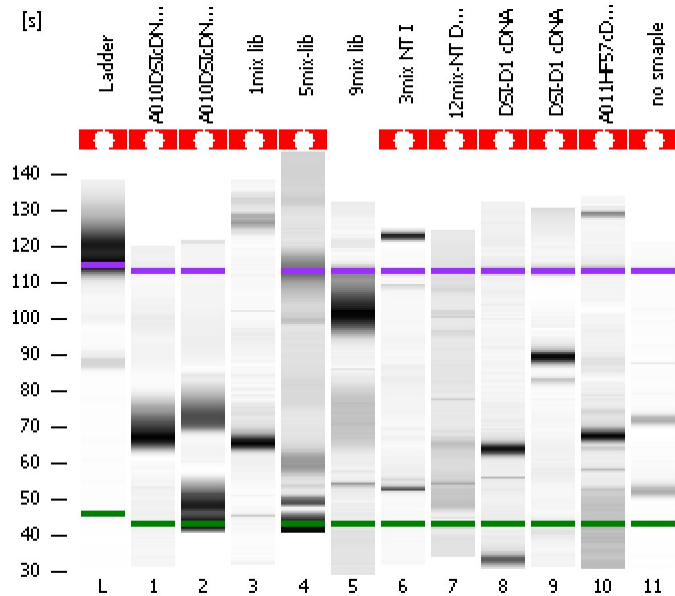


Assay Class: High Sensitivity DNA Assay
Data Path: C:\...ents and Settings\Bioanalyzer\2012-03-16\2012-03-16_001.xad

Created: 3/16/2012 10:20:16 AM
Modified: 3/16/2012 11:01:08 AM

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

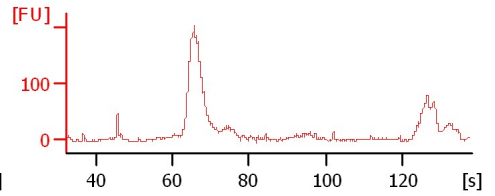
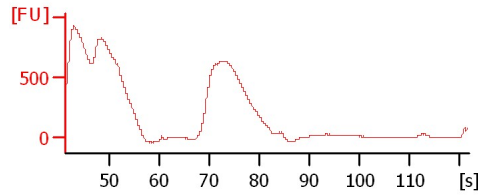
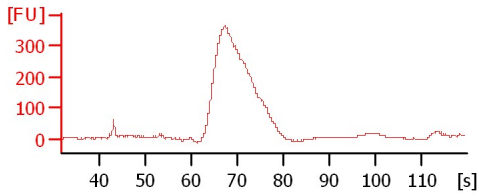
Chip Information:

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

A010DSIcDNA lib 1:4

A010DSIcDNA lib

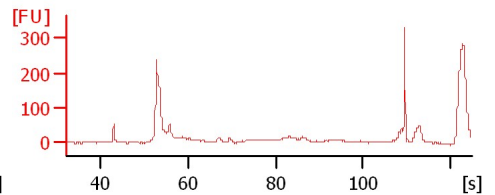
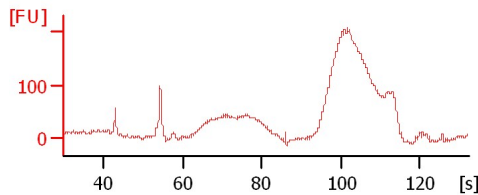
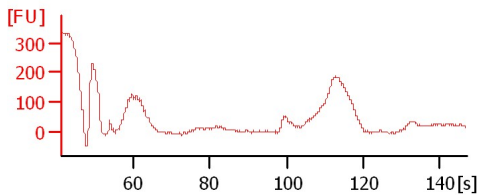
1mix lib



5mix-lib

9mix lib

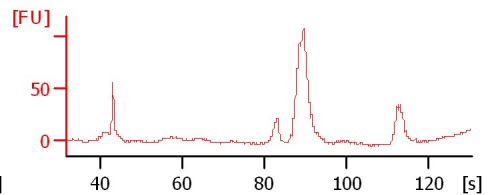
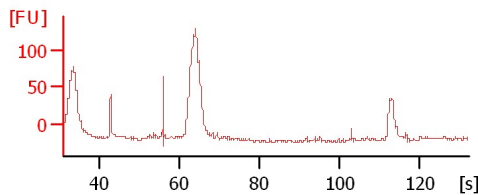
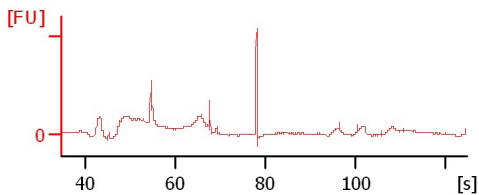
3mix NT I



12mix-NT DRIP

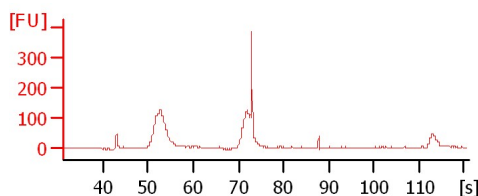
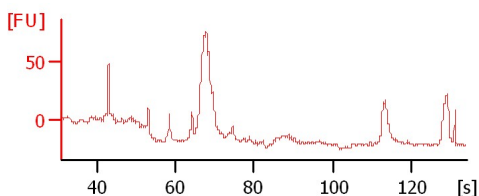
DSI-D1 cDNA

DSI-D1 cDNA



A011HF57cDNA lib

no smaple



Assay Class: High Sensitivity DNA Assay
Data Path: C:\...ents and Settings\Bioanalyzer\2012-03-16\2012-03-16_001.xad

Created: 3/16/2012 10:20:16 AM
Modified: 3/16/2012 11:01:08 AM

Electrophoresis File Run Summary (Chip Summary)

Sample Name	Sample Comment	Rest. Digest	Status	Observation	Result Label	Result Color
A010DSIcDNA lib 1:4		<input type="checkbox"/>	✓			
A010DSIcDNA lib		<input type="checkbox"/>	✓			
1mix lib		<input type="checkbox"/>	✓			
5mix-lib		<input type="checkbox"/>	✓			
9mix lib		<input type="checkbox"/>	✓			
3mix NT I		<input type="checkbox"/>	✓			
12mix-NT DRIP		<input type="checkbox"/>	✓			
DSI-D1 cDNA		<input type="checkbox"/>	✓			
DSI-D1 cDNA		<input type="checkbox"/>	✓			
A011HF57cDNA lib		<input type="checkbox"/>	✓			
no smaple		<input type="checkbox"/>	✗			
Ladder		<input type="checkbox"/>	✓			

Chip Lot #

Reagent Kit Lot #

Chip Comments :

Assay Class: High Sensitivity DNA Assay
Data Path: C:\...ents and Settings\Bioanalyzer\2012-03-16\2012-03-16_001.xad

Created: 3/16/2012 10:20:16 AM
Modified: 3/16/2012 11:01:08 AM

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/ μ l] : 1950
Uses Standard Area for Ladder Fragments
Lower Marker Concentration [pg/ μ l] : 125
Upper Marker Concentration [pg/ μ 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

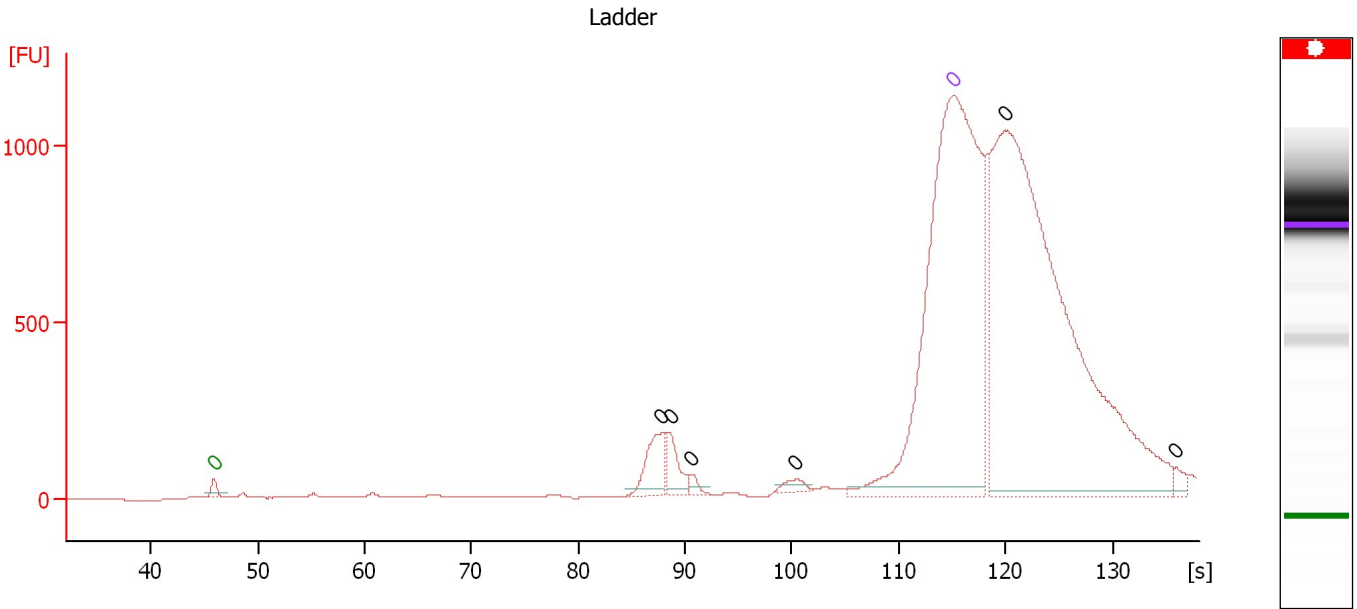
Ladder

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

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\...ents and Settings\Bioanalyzer\2012-03-16\2012-03-16_001.xad

Created: 3/16/2012 10:20:16 AM
 Modified: 3/16/2012 11:01:08 AM

Electropherogram Summary



Overall Results for Ladder

Noise: 0.2

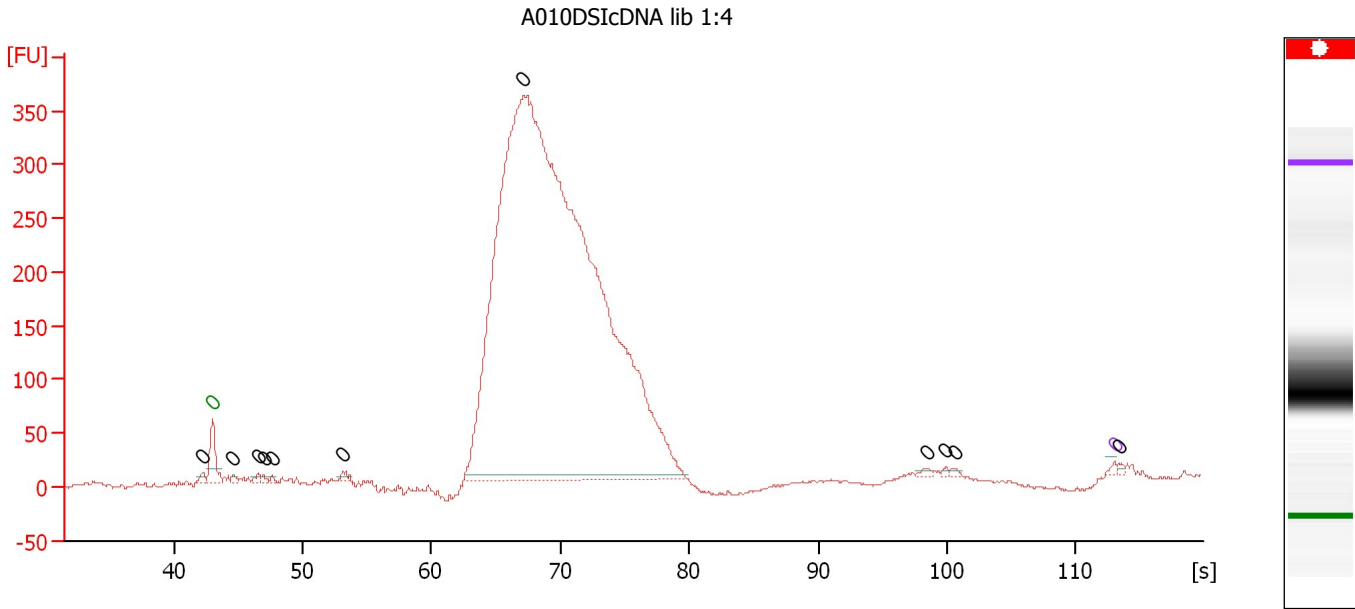
Peak table for Ladder

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
1	0	0.00	0.0	Lower Marker
2	0	0.00	0.0	Ladder Peak
3	0	0.00	0.0	Ladder Peak
4	0	0.00	0.0	Ladder Peak
5	0	0.00	0.0	Ladder Peak
6	0	0.00	0.0	Ladder Peak
7	0	0.00	0.0	Upper Marker
8	0	0.00	0.0	

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\...ents and Settings\Bioanalyzer\2012-03-16\2012-03-16_001.xad

Created: 3/16/2012 10:20:16 AM
 Modified: 3/16/2012 11:01:08 AM

Electropherogram Summary Continued ...



Overall Results for sample 1 : A010DSIcDNA lib 1:4

Number of peaks found: 11 Noise: 1.2

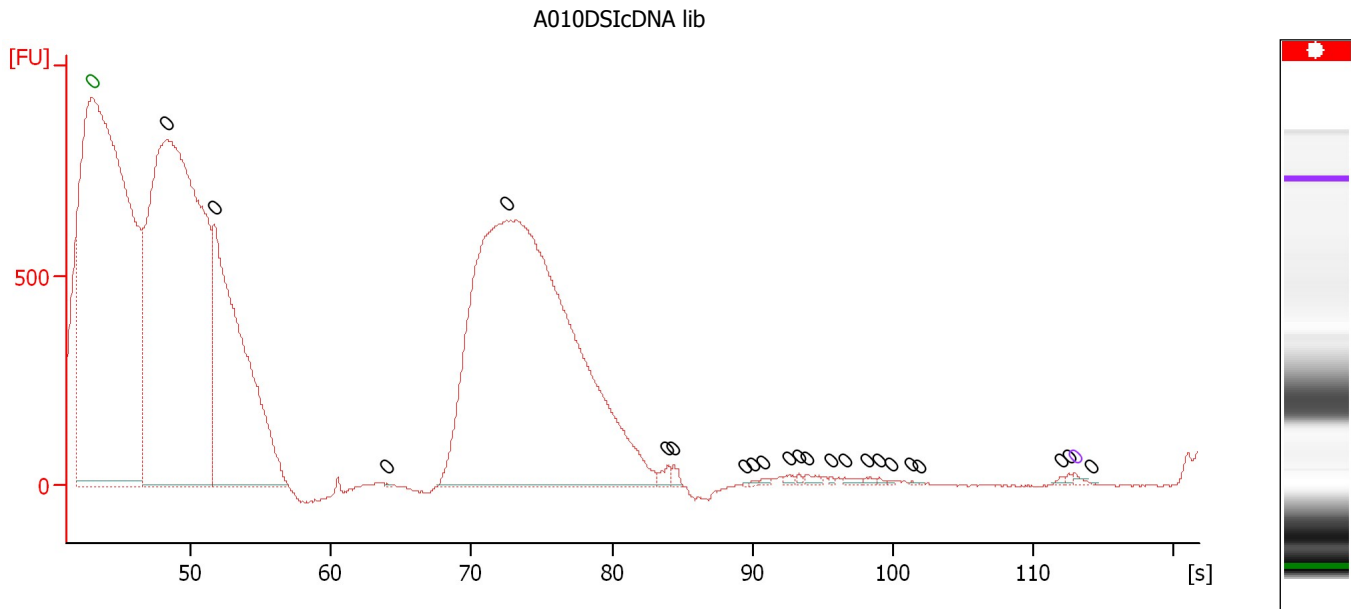
Peak table for sample 1 : A010DSIcDNA lib 1:4

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
1	0	0.00	0.0	
2	0	0.00	0.0	Lower Marker
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	Upper Marker
13	0	0.00	0.0	

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\...ents and Settings\Bioanalyzer\2012-03-16\2012-03-16_001.xad

Created: 3/16/2012 10:20:16 AM
 Modified: 3/16/2012 11:01:08 AM

Electropherogram Summary Continued ...



Overall Results for sample 2 : A010DSIcDNA lib

Number of peaks found: 22 Noise: 1.9

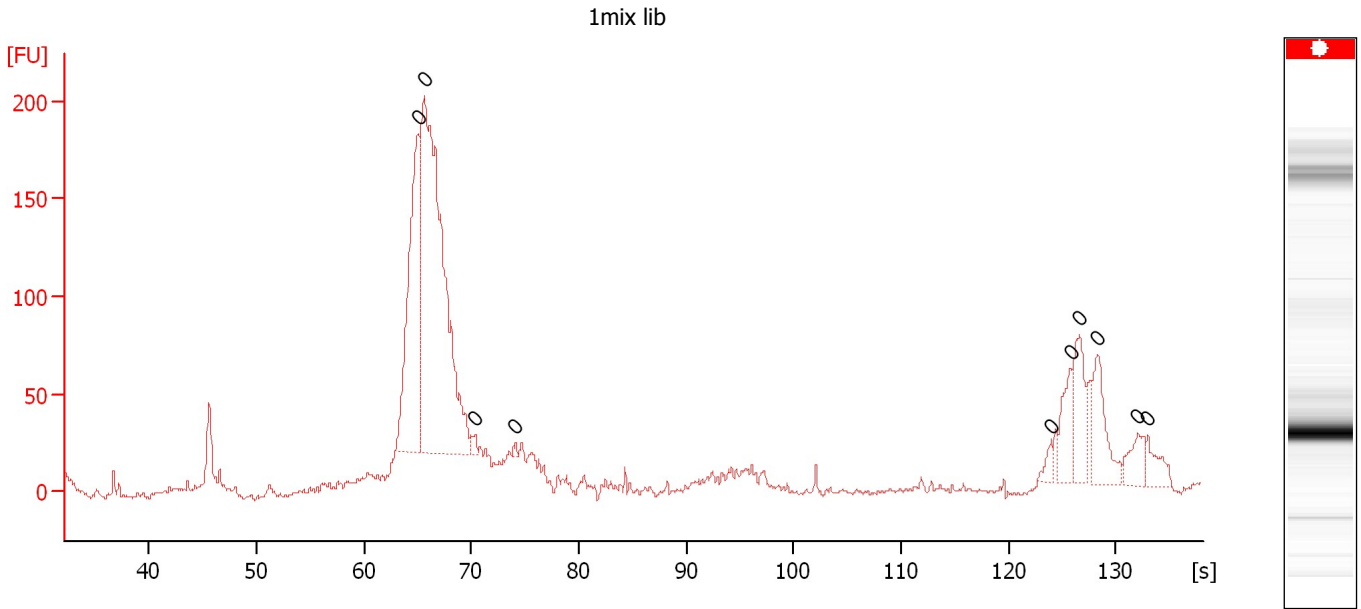
Peak table for sample 2 : A010DSIcDNA lib

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	
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	Upper Marker
24	0	0.00	0.0	

Assay Class: High Sensitivity DNA Assay
Data Path: C:\...ents and Settings\Bioanalyzer\2012-03-16\2012-03-16_001.xad

Created: 3/16/2012 10:20:16 AM
Modified: 3/16/2012 11:01:08 AM

Electropherogram Summary Continued ...



Overall Results for sample 3 : 1mix lib

Number of peaks found: 0 Noise: 1.6

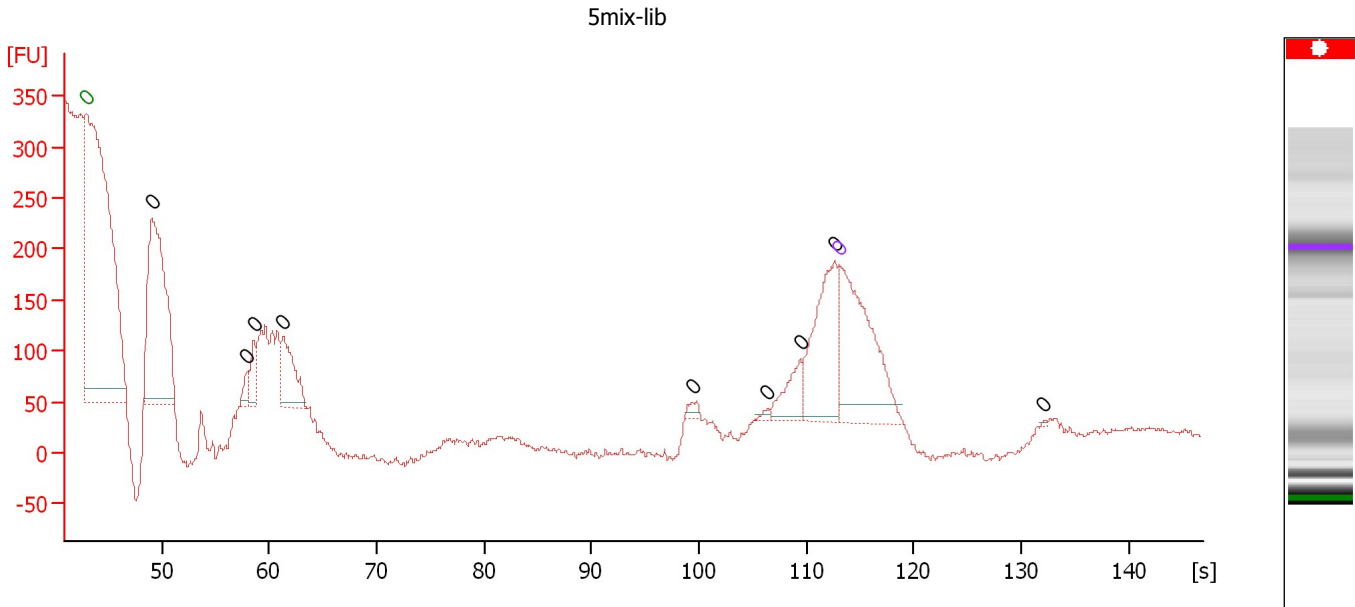
Peak table for sample 3 : 1mix lib

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	

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\...ents and Settings\Bioanalyzer\2012-03-16\2012-03-16_001.xad

Created: 3/16/2012 10:20:16 AM
 Modified: 3/16/2012 11:01:08 AM

Electropherogram Summary Continued ...



Overall Results for sample 4 : 5mix-lib

Number of peaks found: 9 Noise: 2.6

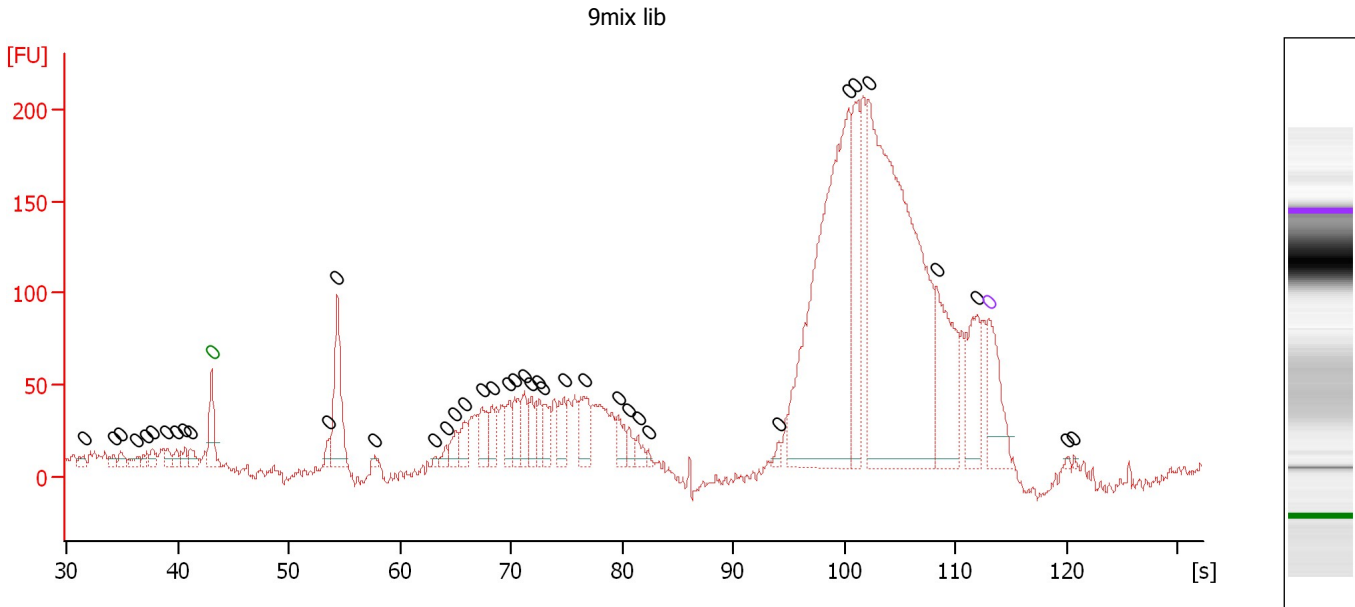
Peak table for sample 4 : 5mix-lib

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	
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	Upper Marker
11	0	0.00	0.0	

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\...ents and Settings\Bioanalyzer\2012-03-16\2012-03-16_001.xad

Created: 3/16/2012 10:20:16 AM
 Modified: 3/16/2012 11:01:08 AM

Electropherogram Summary Continued ...



Overall Results for sample 5 : 9mix lib

Number of peaks found: 39 Noise: 3.7

Peak table for sample 5 : 9mix lib

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	Lower Marker
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\2012-03-16\2012-03-16_001.xad

Created: 3/16/2012 10:20:16 AM
Modified: 3/16/2012 11:01:08 AM

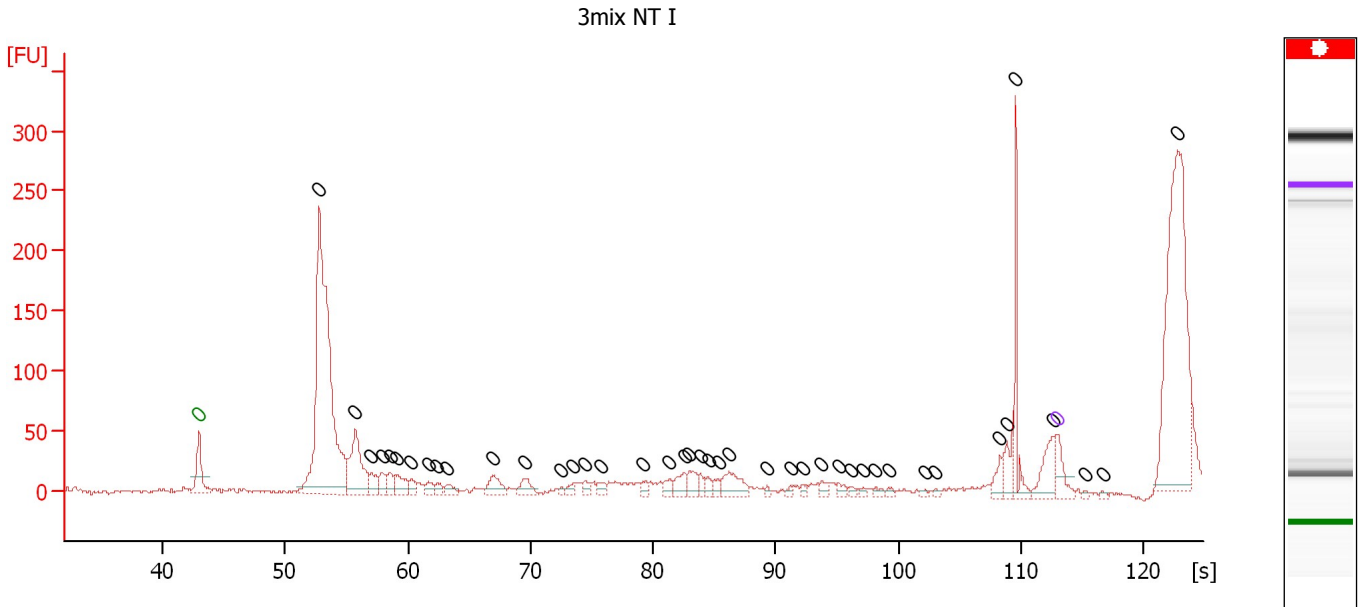
Electropherogram Summary Continued ...**... Peak table for sample 5 : 9mix lib**

Peak	Size [bp]	Conc. [pg/ μ l]	Molarity [pmol/l]	Observations
28	0	0.00	0.0	
29	0	0.00	0.0	
30	0	0.00	0.0	
31	0	0.00	0.0	
32	0	0.00	0.0	
33	0	0.00	0.0	
34	0	0.00	0.0	
35	0	0.00	0.0	
36	0	0.00	0.0	
37	0	0.00	0.0	
38	0	0.00	0.0	
39	0	0.00	0.0	Upper Marker
40	0	0.00	0.0	
41	0	0.00	0.0	

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\...ents and Settings\Bioanalyzer\2012-03-16\2012-03-16_001.xad

Created: 3/16/2012 10:20:16 AM
 Modified: 3/16/2012 11:01:08 AM

Electropherogram Summary Continued ...



Overall Results for sample 6 : 3mix NT I

Number of peaks found: 42 Noise: 1.3

Peak table for sample 6 : 3mix NT I

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	
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\2012-03-16\2012-03-16_001.xad

Created: 3/16/2012 10:20:16 AM
Modified: 3/16/2012 11:01:08 AM

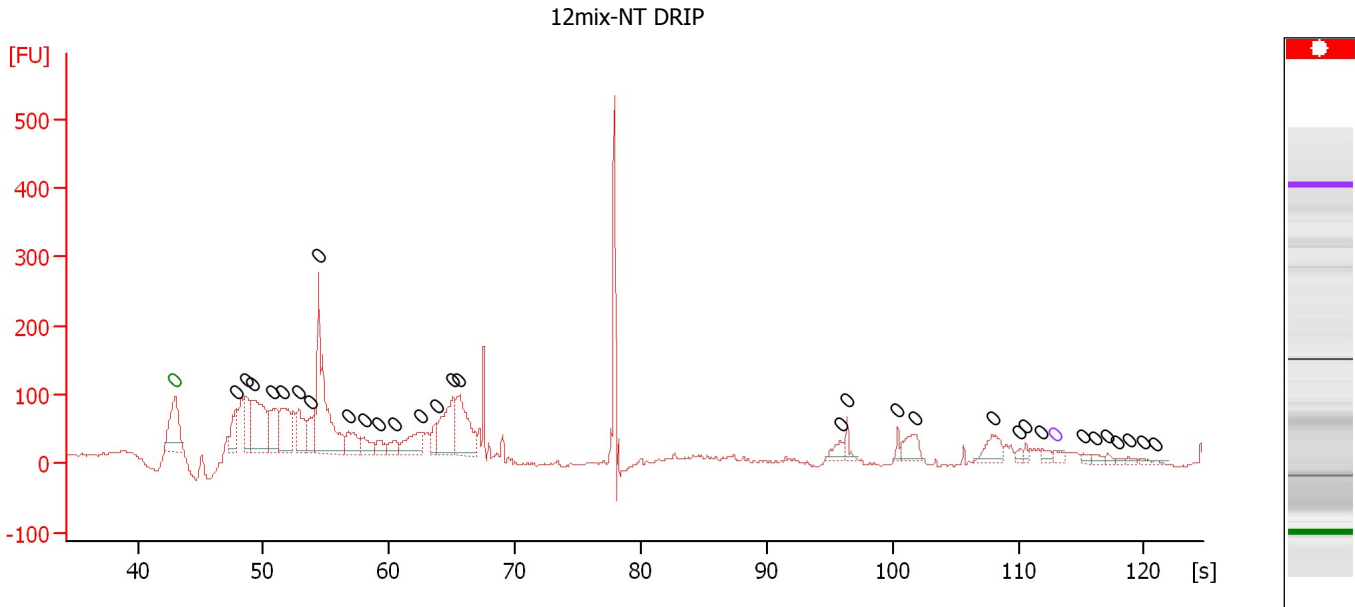
Electropherogram Summary Continued ...**... Peak table for sample 6 : 3mix NT I**

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
28	0	0.00	0.0	
29	0	0.00	0.0	
30	0	0.00	0.0	
31	0	0.00	0.0	
32	0	0.00	0.0	
33	0	0.00	0.0	
34	0	0.00	0.0	
35	0	0.00	0.0	
36	0	0.00	0.0	
37	0	0.00	0.0	
38	0	0.00	0.0	
39	0	0.00	0.0	
40	0	0.00	0.0	
41	0	0.00	0.0	Upper Marker
42	0	0.00	0.0	
43	0	0.00	0.0	
44	0	0.00	0.0	

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\...ents and Settings\Bioanalyzer\2012-03-16\2012-03-16_001.xad

Created: 3/16/2012 10:20:16 AM
 Modified: 3/16/2012 11:01:08 AM

Electropherogram Summary Continued ...



Overall Results for sample 7 : 12mix-NT DRIP

Number of peaks found: 31 Noise: 3.1

Peak table for sample 7 : 12mix-NT DRIP

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	
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	Upper Marker
27	0	0.00	0.0	

Assay Class: High Sensitivity DNA Assay
Data Path: C:\...ents and Settings\Bioanalyzer\2012-03-16\2012-03-16_001.xad

Created: 3/16/2012 10:20:16 AM
Modified: 3/16/2012 11:01:08 AM

Electropherogram Summary Continued ...

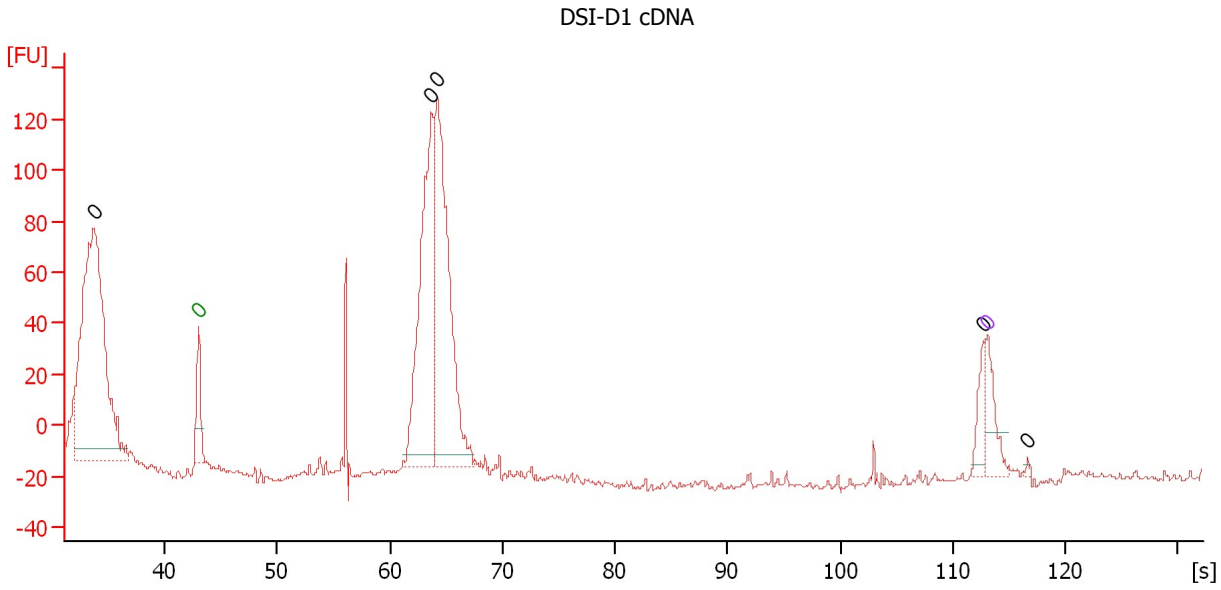
... Peak table for sample 7 : 12mix-NT DRIP

Peak	Size [bp]	Conc. [pg/ μ l]	Molarity [pmol/l]	Observations
28	0	0.00	0.0	
29	0	0.00	0.0	
30	0	0.00	0.0	
31	0	0.00	0.0	
32	0	0.00	0.0	
33	0	0.00	0.0	

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\...ents and Settings\Bioanalyzer\2012-03-16\2012-03-16_001.xad

Created: 3/16/2012 10:20:16 AM
 Modified: 3/16/2012 11:01:08 AM

Electropherogram Summary Continued ...



Overall Results for sample 8 : DSI-D1 cDNA

Number of peaks found: 5 Noise: 1.2

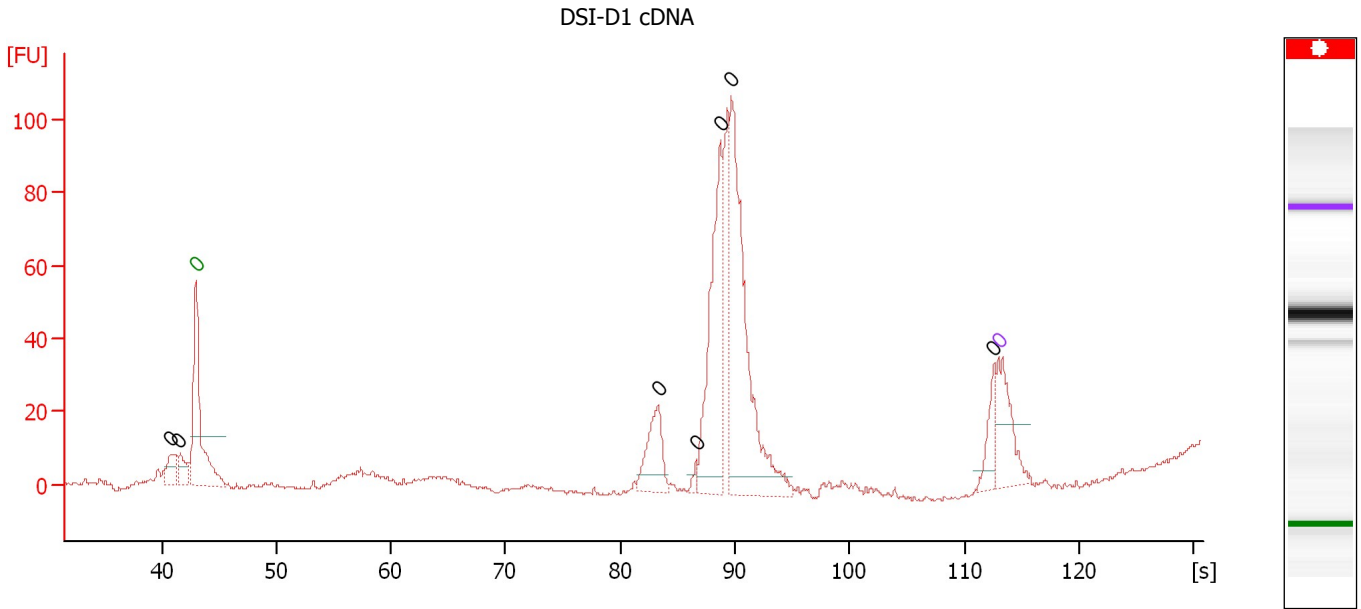
Peak table for sample 8 : DSI-D1 cDNA

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
1	0	0.00	0.0	
2	0	0.00	0.0	Lower Marker
3	0	0.00	0.0	
4	0	0.00	0.0	
5	0	0.00	0.0	
6	0	0.00	0.0	Upper Marker
7	0	0.00	0.0	

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\...ents and Settings\Bioanalyzer\2012-03-16\2012-03-16_001.xad

Created: 3/16/2012 10:20:16 AM
 Modified: 3/16/2012 11:01:08 AM

Electropherogram Summary Continued ...



Overall Results for sample 9 : DSI-D1 cDNA

Number of peaks found: 7 Noise: 0.5

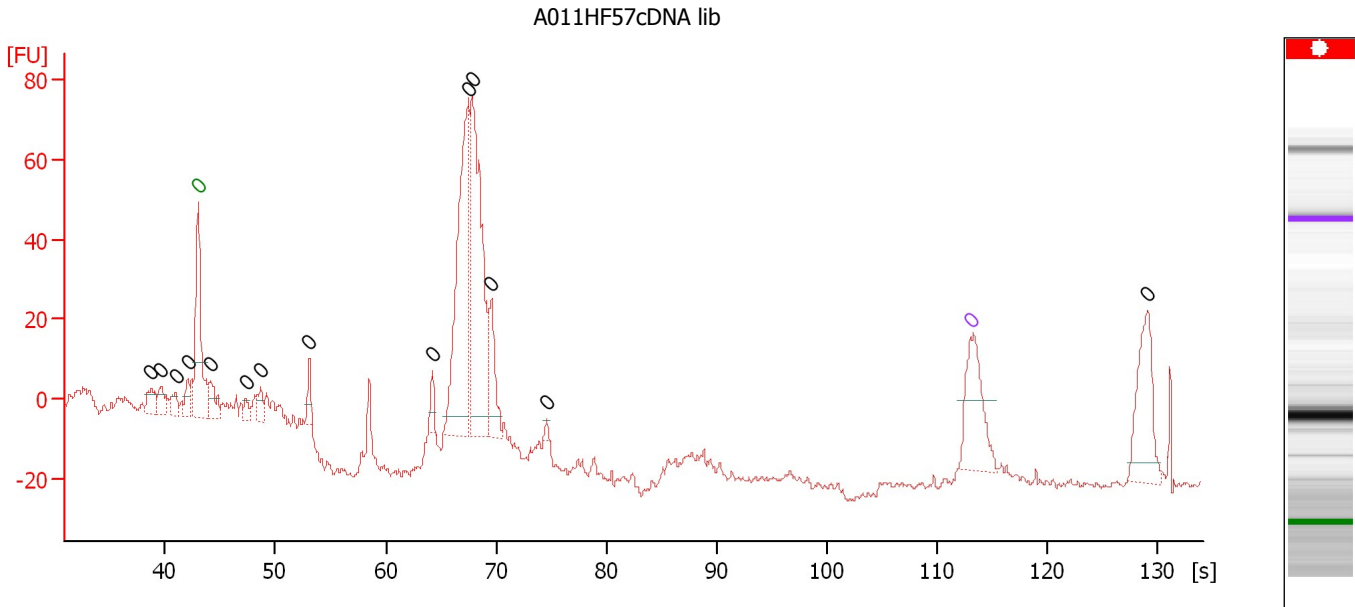
Peak table for sample 9 : DSI-D1 cDNA

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	Lower Marker
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	Upper Marker

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\...ents and Settings\Bioanalyzer\2012-03-16\2012-03-16_001.xad

Created: 3/16/2012 10:20:16 AM
 Modified: 3/16/2012 11:01:08 AM

Electropherogram Summary Continued ...



Overall Results for sample 10 : A011HF57cDNA lib

Number of peaks found: 14 Noise: 1.0

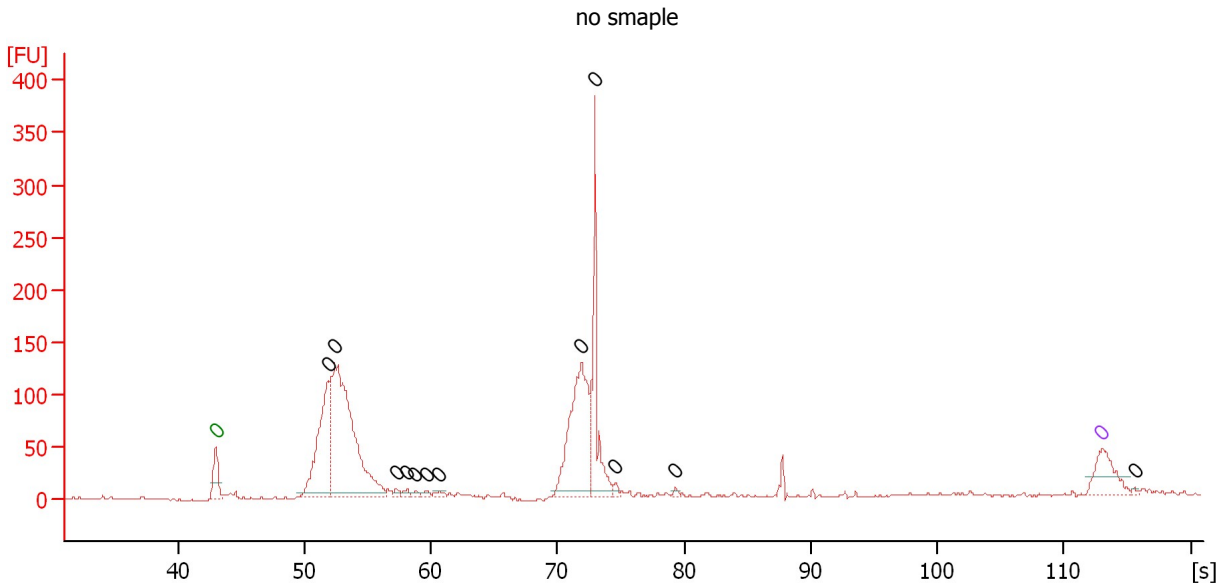
Peak table for sample 10 : A011HF57cDNA lib

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	Lower Marker
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	Upper Marker
16	0	0.00	0.0	

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\...ents and Settings\Bioanalyzer\2012-03-16\2012-03-16_001.xad

Created: 3/16/2012 10:20:16 AM
 Modified: 3/16/2012 11:01:08 AM

Electropherogram Summary Continued ...



Setpoint Deviations for sample 11 : no smaple

End Analysis Time Range [s] : 123.25

Overall Results for sample 11 : no smaple

Number of peaks found: 12 Noise: 1.0

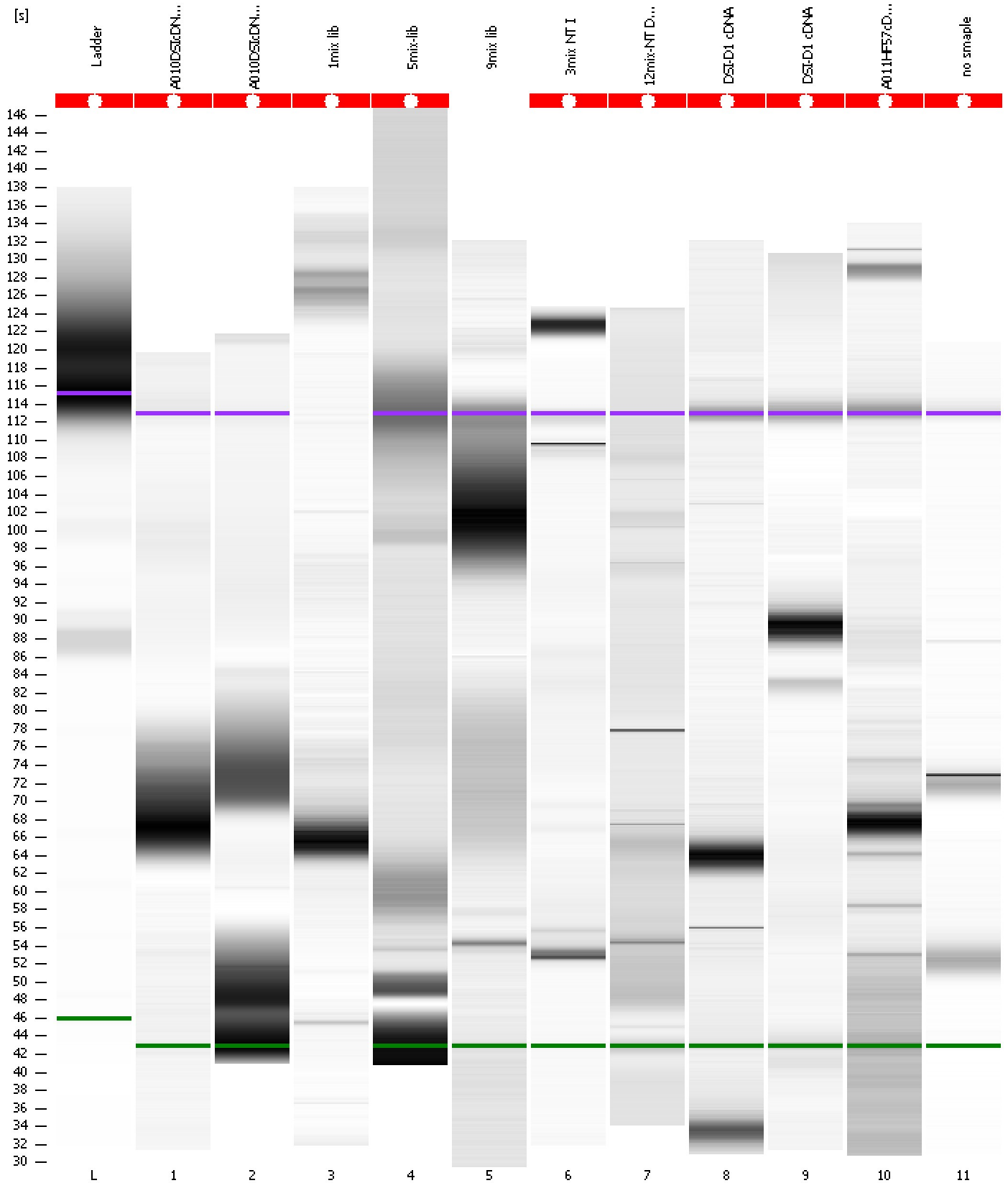
Peak table for sample 11 : no smaple

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	
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	Upper Marker
14	0	0.00	0.0	

Assay Class: High Sensitivity DNA Assay
Data Path: C:\...ents and Settings\Bioanalyzer\2012-03-16\2012-03-16_001.xad

Created: 3/16/2012 10:20:16 AM
Modified: 3/16/2012 11:01:08 AM

Gel Image



Assay Class: High Sensitivity DNA Assay
 Data Path: C:\...ents and Settings\Bioanalyzer\2012-03-16\2012-03-16_001.xad

Created: 3/16/2012 10:20:16 AM
 Modified: 3/16/2012 11:01:08 AM

Run Logbook

Description	Number	Source	Category	Sub Category	Time	Time Zone	User	Host
Run aborted on port 1		Instrument	Run		3/16/2012 11:01:05 AM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Run started on port 1 (File: C:\Documents and Settings\Bioanalyzer\2012-03-16\2012-03-16_001.xad)		Instrument	Run		3/16/2012 10:20:21 AM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Product Number : G2938B		Instrument	Run		3/16/2012 10:20:21 AM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Name :		Instrument	Run		3/16/2012 10:20:21 AM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Vendor : Agilent Technologies		Instrument	Run		3/16/2012 10:20:21 AM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Serial# : DE13701086		Instrument	Run		3/16/2012 10:20:21 AM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Firmware : C.01.069		Instrument	Run		3/16/2012 10:20:21 AM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Cartridge : Electrode		Instrument	Run		3/16/2012 10:20:21 AM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1