

Assay Class: High Sensitivity DNA Assay
Data Path: C:\...ents and Settings\Bioanalyzer\2013-01-18\2013-01-18_001.xad

Created: 1/18/2013 9:32:16 AM
Modified: 1/18/2013 10:12:04 AM

Electrophoresis File Run Summary

Instrument Information:

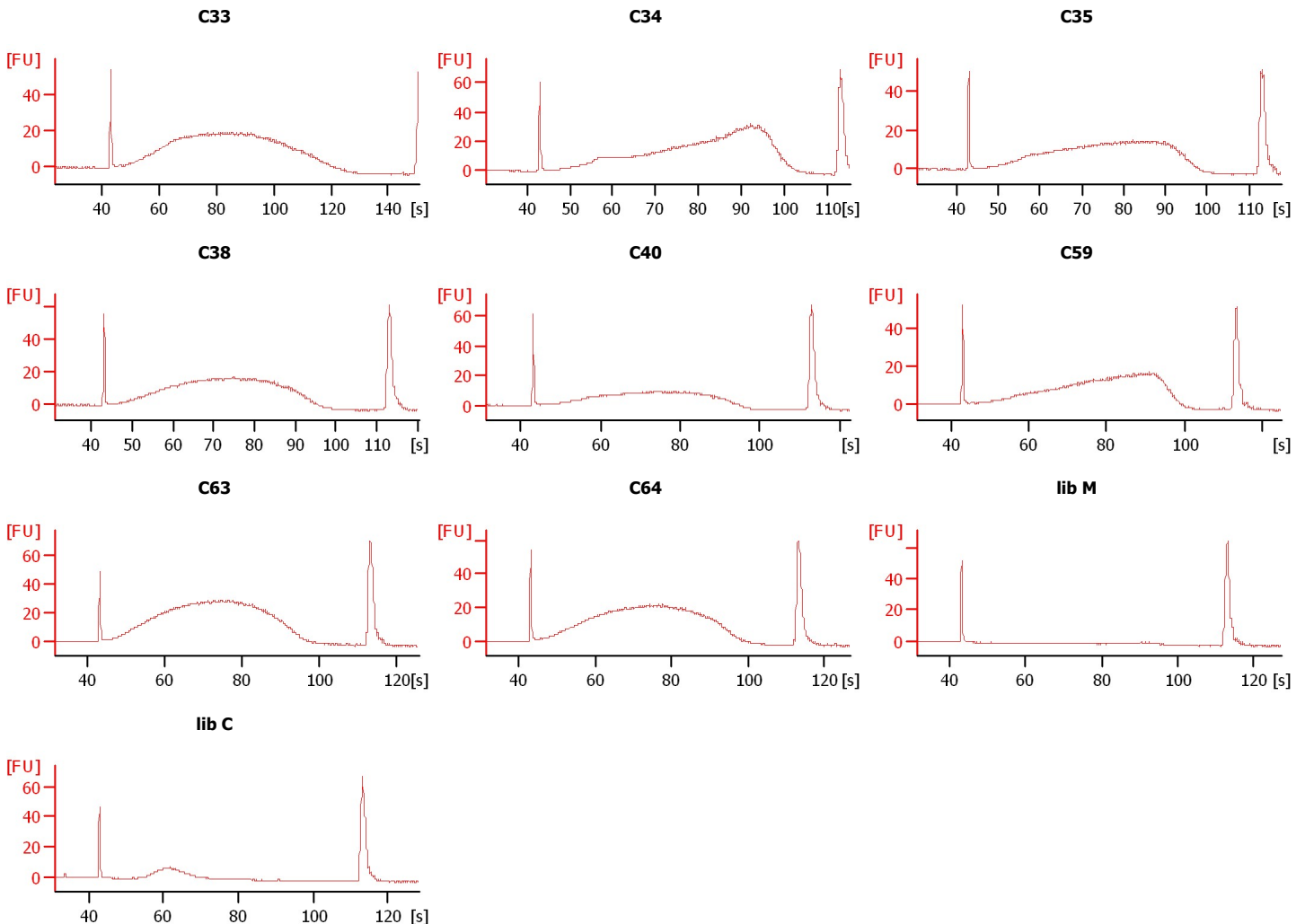
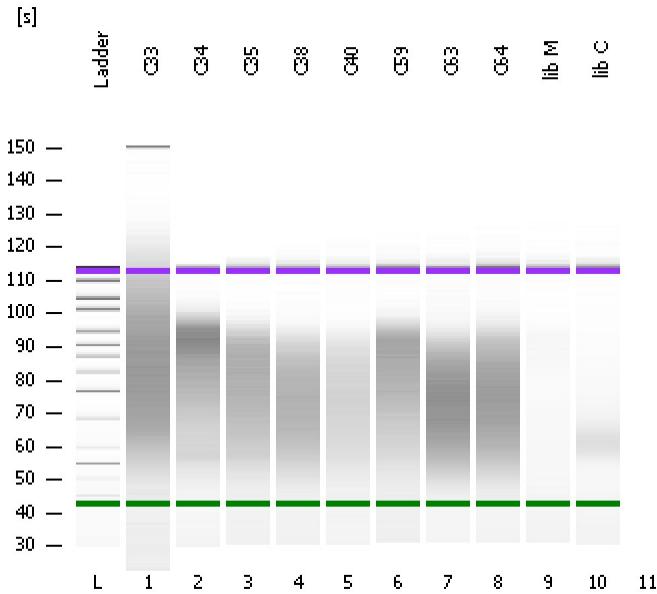
Instrument Name: DE13701086 Firmware: C.01.069
Serial#: DE13701086 Type: G2938B

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:



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 Data Path: C:\...ents and Settings\Bioanalyzer\2013-01-18\2013-01-18_001.xad

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Electrophoresis File Run Summary (Chip Summary)

Sample Name	Sample Comment	Rest. Digest	Status	Observation	Result Label	Result Color
C33		<input type="checkbox"/>	✓			
C34		<input type="checkbox"/>	✓			
C35		<input type="checkbox"/>	✓			
C38		<input type="checkbox"/>	✓			
C40		<input type="checkbox"/>	✓			
C59		<input type="checkbox"/>	✓			
C63		<input type="checkbox"/>	✓			
C64		<input type="checkbox"/>	✓			
lib M		<input type="checkbox"/>	✓			
lib C		<input type="checkbox"/>	✓			
Ladder		<input type="checkbox"/>	✓			

Chip Lot #

Reagent Kit Lot #

Chip Comments :

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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

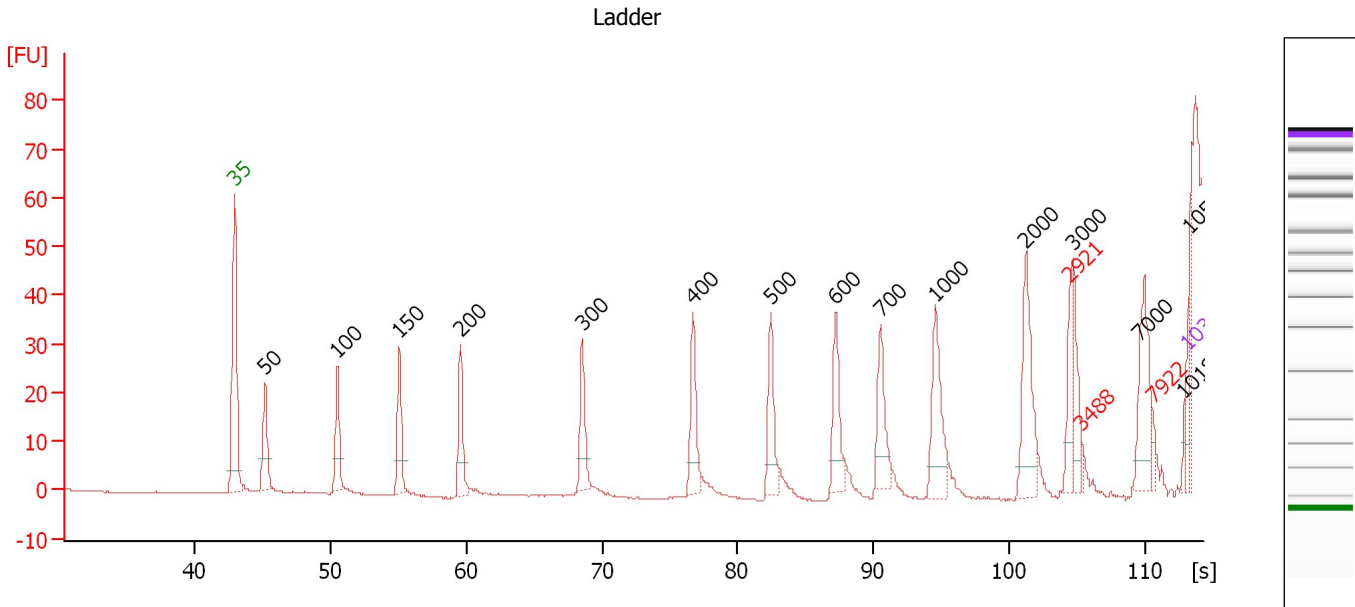
Ladder

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

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Electropherogram Summary



Overall Results for Ladder

Noise: 0.2

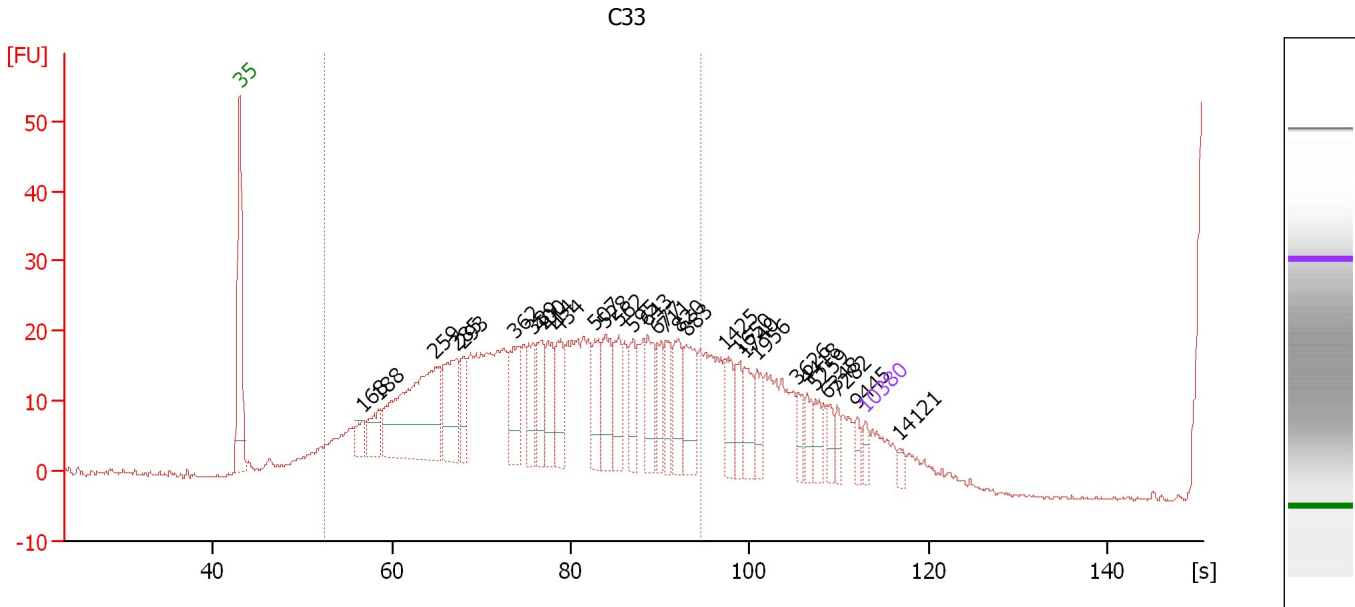
Peak table for Ladder

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	2,921	0.00	0.0	excluded peak
14	3,000	150.00	75.8	Ladder Peak
15	3,488	0.00	0.0	excluded peak
16	7,000	150.00	32.5	Ladder Peak
17	7,922	0.00	0.0	excluded peak
18	10,188	0.00	0.0	
19	10,380	75.00	10.9	Upper Marker
20	10,572	0.00	0.0	

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Electropherogram Summary Continued ...



Overall Results for sample 1 : C33

Number of peaks found: 30 Corr. Area 1: 491.9
 Noise: 0.3

Peak table for sample 1 : C33

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
1	35	125.00	5,411.3	Lower Marker
2	168	168.93	1,527.7	
3	188	322.25	2,603.2	
4	259	1,932.94	11,326.3	
5	285	750.20	3,992.2	
6	293	306.04	1,583.8	
7	362	541.85	2,266.6	
8	389	333.47	1,299.5	
9	400	377.98	1,432.1	
10	414	370.02	1,355.5	
11	434	392.64	1,371.8	
12	507	362.22	1,083.4	
13	528	442.80	1,270.8	
14	562	321.46	866.8	
15	595	302.09	769.8	
16	643	385.67	908.8	
17	677	248.50	555.8	
18	711	271.56	578.3	
19	820	363.36	671.4	
20	883	439.24	753.5	
21	1,425	228.57	243.1	
22	1,650	201.31	184.9	
23	1,740	235.82	205.4	
24	1,956	187.48	145.2	
25	3,626	115.50	48.3	
26	4,418	135.86	46.6	

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Electropherogram Summary Continued ...

... Peak table for sample 1 : C33

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
27	5,259	137.36	39.6	
28	6,348	106.63	25.5	
29	7,282	93.37	19.4	
30	9,445	82.25	13.2	
31	10,380	75.00	10.9	Upper Marker
32	14,121	0.00	0.0	

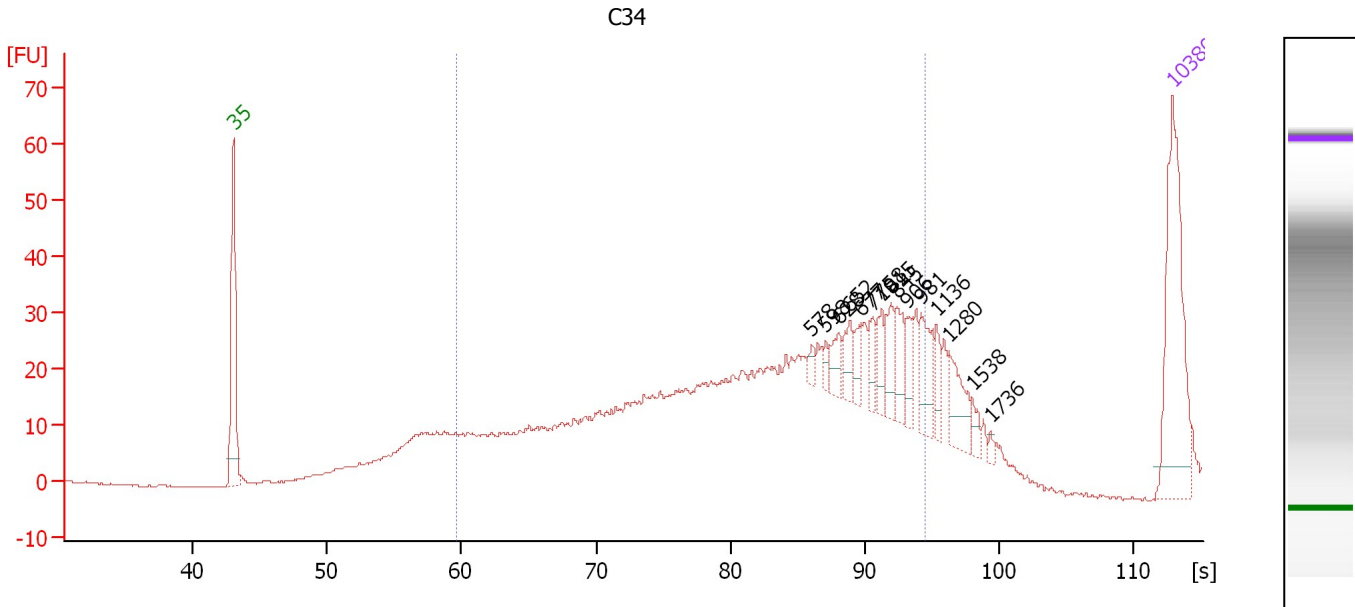
Region table for sample 1 : C33

From [s]	To [s]	Average Size [bp]	Molarity [pmol/l]	Conc. [pg/μl]	Corr. Area % of Total	Size distribution in CV [%]	Color
52.46	94.48	442	45,807.6	10,040.00	491.9	86	43.6

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Electropherogram Summary Continued ...



Setpoint Deviations for sample 2 : C34

Baseline Plateau [s] : 0.3

Overall Results for sample 2 : C34

Number of peaks found: 15 Corr. Area 1: 680.4
 Noise: 0.1

Peak table for sample 2 : C34

Peak	Size [bp]	Conc. [pg/µl]	Molarity [pmol/l]	Observations
1	35	125.00	5,411.3	Lower Marker
2	578	4.74	12.4	
3	598	5.48	13.9	
4	628	12.03	29.0	
5	652	13.80	32.1	
6	677	10.81	24.2	
7	710	11.64	24.8	
8	758	14.00	28.0	
9	815	17.01	31.6	
10	845	16.96	30.4	
11	906	12.62	21.1	
12	981	22.57	34.9	
13	1,136	10.97	14.6	
14	1,280	21.46	25.4	
15	1,538	5.41	5.3	
16	1,736	2.17	1.9	
17	10,380	75.00	10.9	Upper Marker

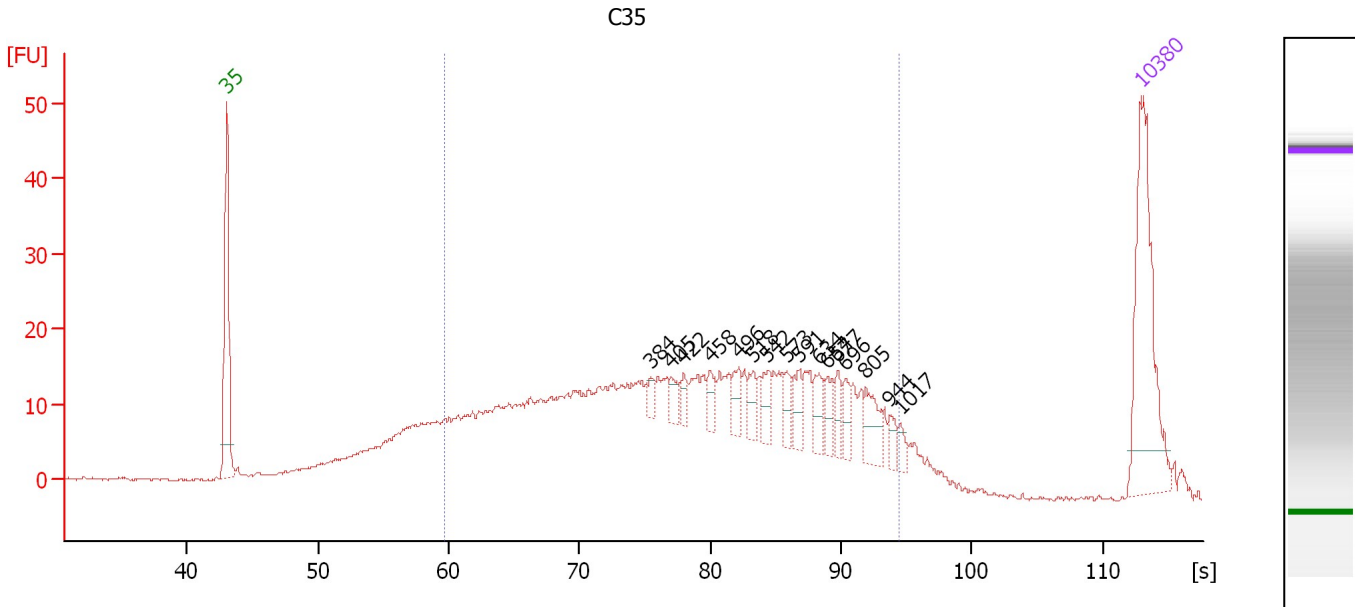
Region table for sample 2 : C34

From [s]	To [s]	Average Size [bp]	Molarity [pmol/l]	Conc. [pg/µl]	Corr. Area % of Total	Size distribution in CV [%]	Color
59.62	94.48	536	2,900.2	807.02	680.4 81	37.8	Blue

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Electropherogram Summary Continued ...



Overall Results for sample 3 : C35

Number of peaks found: 16 Corr. Area 1: 621.7
 Noise: 0.2

Peak table for sample 3 : C35

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
1	35	125.00	5,411.3	Lower Marker
2	384	6.91	27.2	
3	405	8.90	33.3	
4	422	7.09	25.5	
5	458	9.31	30.8	
6	496	11.67	35.6	
7	518	10.87	31.8	
8	542	12.45	34.8	
9	573	11.27	29.8	
10	591	13.16	33.7	
11	634	12.79	30.5	
12	654	10.73	24.9	
13	677	9.89	22.1	
14	696	10.25	22.3	
15	805	18.68	35.2	
16	944	6.76	10.9	
17	1,017	5.18	7.7	
18	10,380	75.00	10.9	Upper Marker

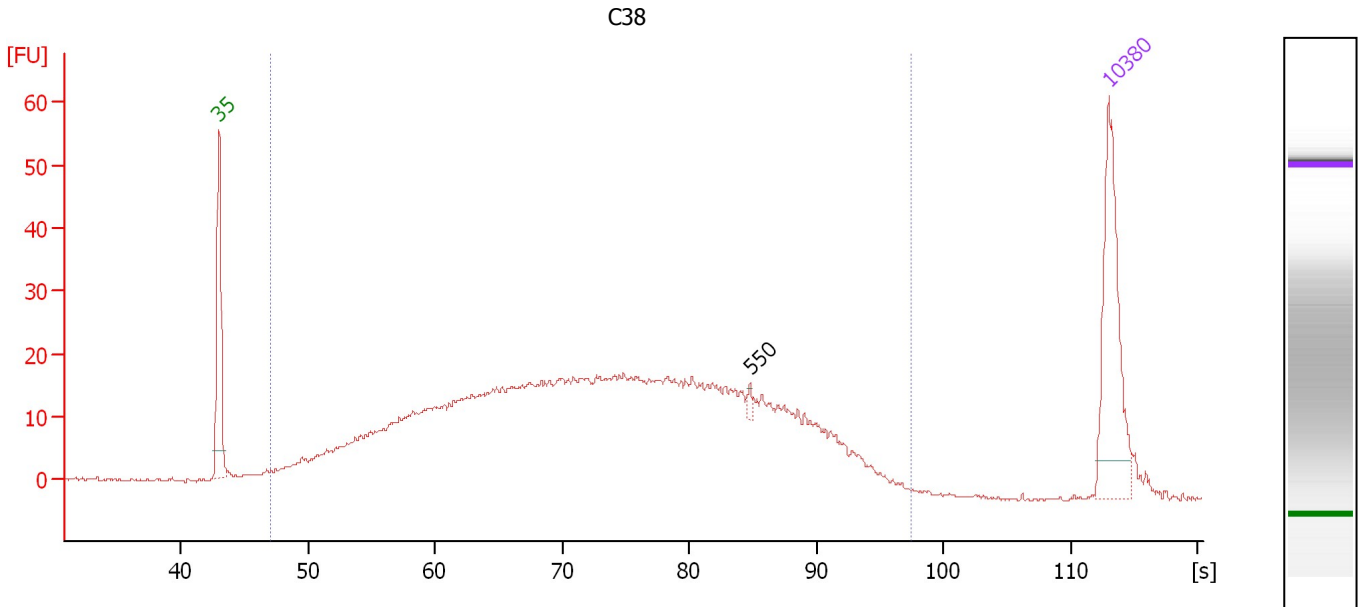
Region table for sample 3 : C35

From [s]	To [s]	Average Size [bp]	Molarity [pmol/l]	Conc. [pg/μl]	Corr. Area	% of Total	Size distribution in CV [%]	Color
59.62	94.48	464	3,818.4	938.31	621.7	81	39.0	Blue

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Electropherogram Summary Continued ...



Overall Results for sample 4 : C38

Number of peaks found: 1 Corr. Area 1: 888.8
 Noise: 0.2

Peak table for sample 4 : C38

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
1	35	125.00	5,411.3	Lower Marker
2	550	3.83	10.5	
3	10,380	75.00	10.9	Upper Marker

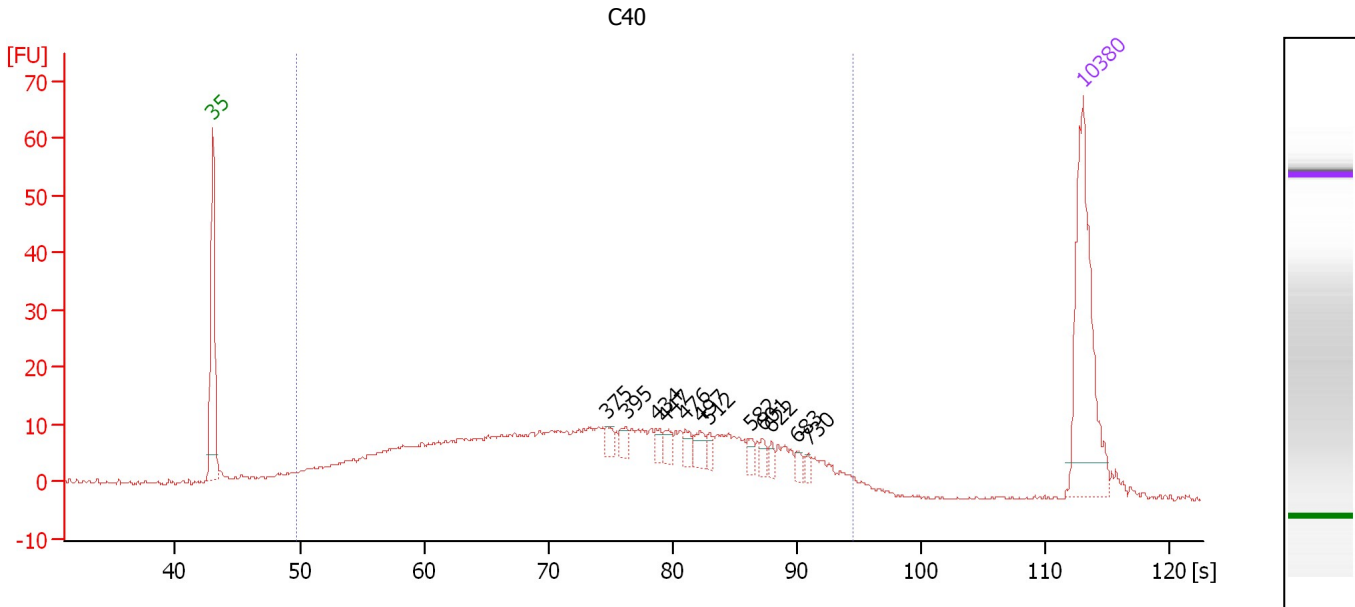
Region table for sample 4 : C38

From [s]	To [s]	Average Size [bp]	Molarity [pmol/l]	Conc. [pg/μl]	Corr. Area	% of Total	Size distribution in CV [%]	Color
47.09	97.44	391	7,768.0	1,326.32	888.8	98	49.4	Blue

Assay Class: High Sensitivity DNA Assay
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Electropherogram Summary Continued ...



Overall Results for sample 5 : C40

Number of peaks found: 12 Corr. Area 1: 538.7
 Noise: 0.2

Peak table for sample 5 : C40

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
1	35	125.00	5,411.3	Lower Marker
2	375	6.34	25.6	
3	395	7.37	28.3	
4	434	4.89	17.0	
5	447	7.15	24.2	
6	476	6.94	22.1	
7	497	8.81	26.9	
8	512	4.88	14.4	
9	582	5.12	13.3	
10	601	4.85	12.2	
11	622	3.89	9.5	
12	683	4.72	10.5	
13	730	3.21	6.7	
14	10,380	75.00	10.9	Upper Marker

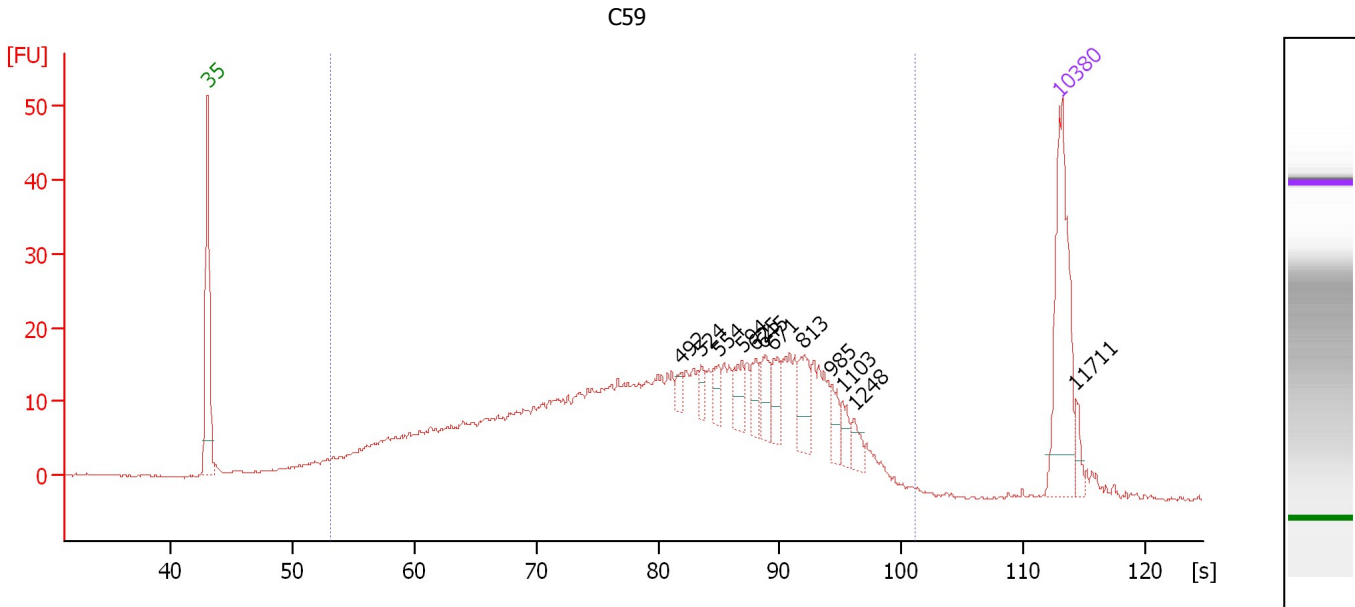
Region table for sample 5 : C40

From [s]	To [s]	Average Size [bp]	Molarity [pmol/l]	Conc. [pg/μl]	Corr. Area	% of Total	Size distribution in CV [%]	Color
49.76	94.48	393	3,861.4	689.90	538.7	92	45.8	Blue

Assay Class: High Sensitivity DNA Assay
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Electropherogram Summary Continued ...



Overall Results for sample 6 : C59

Number of peaks found: 12 Corr. Area 1: 695.7
 Noise: 0.1

Peak table for sample 6 : C59

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
1	35	125.00	5,411.3	Lower Marker
2	492	7.56	23.3	
3	524	8.60	24.8	
4	554	10.64	29.1	
5	594	16.44	41.9	
6	625	13.13	31.8	
7	645	16.93	39.8	
8	671	15.65	35.4	
9	813	23.21	43.3	
10	985	11.91	18.3	
11	1,103	9.81	13.5	
12	1,248	8.98	10.9	
13	10,380	75.00	10.9	Upper Marker
14	11,711	0.00	0.0	

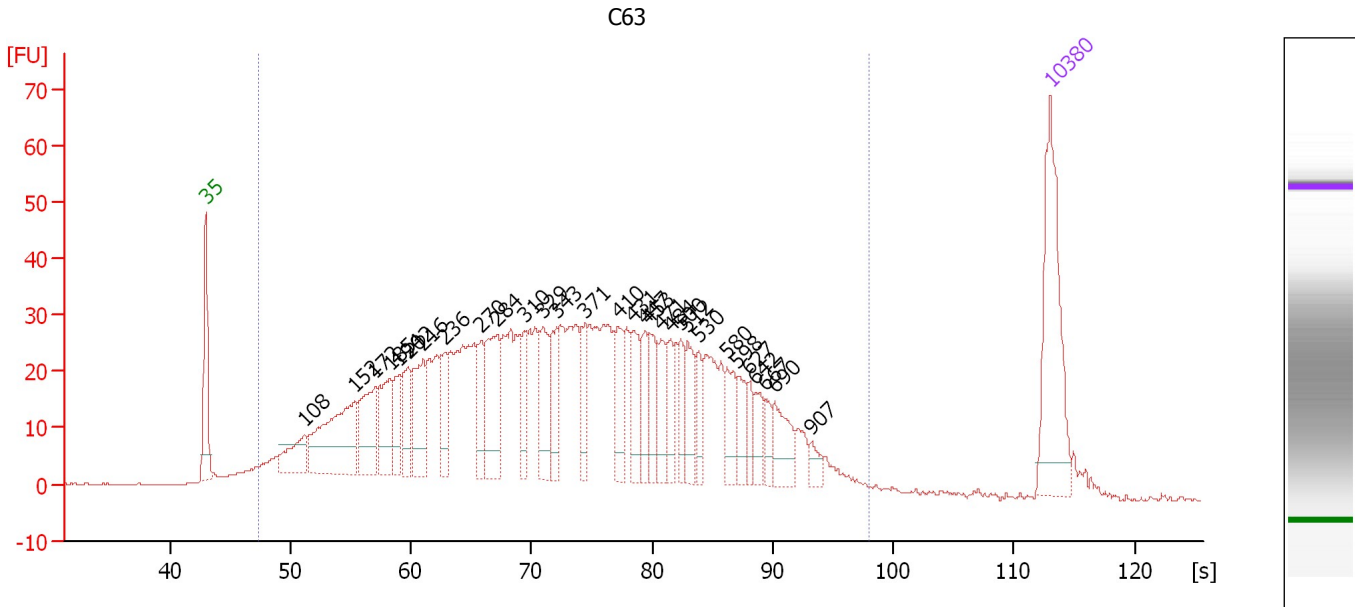
Region table for sample 6 : C59

From [s]	To [s]	Average Size [bp]	Molarity [pmol/l]	Conc. [pg/μl]	Corr. Area	% of Total	Size distribution in CV [%]	Color
53.10	101.08	536	5,232.7	1,226.46	695.7	94	54.7	Blue

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Electropherogram Summary Continued ...



Overall Results for sample 7 : C63

Number of peaks found: 30 Corr. Area 1: 1,444.0
 Noise: 0.1

Peak table for sample 7 : C63

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
1	35	125.00	5,411.3	Lower Marker
2	108	38.23	538.6	
3	152	118.48	1,178.8	
4	172	63.74	562.9	
5	185	52.05	425.3	
6	194	26.15	204.4	
7	202	33.44	251.2	
8	216	54.79	385.0	
9	236	28.92	185.6	
10	270	29.10	163.4	
11	284	65.23	348.4	
12	310	28.64	140.0	
13	329	40.52	186.6	
14	343	35.20	155.3	
15	371	26.04	106.3	
16	410	31.33	115.9	
17	431	28.25	99.4	
18	447	22.58	76.5	
19	453	30.61	102.4	
20	471	25.97	83.6	
21	484	20.89	65.4	
22	500	20.35	61.7	
23	512	28.29	83.8	
24	530	17.97	51.3	
25	580	23.50	61.4	
26	598	19.43	49.2	

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Electropherogram Summary Continued ...

... Peak table for sample 7 : C63

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
27	627	12.42	30.0	
28	642	15.90	37.5	
29	667	10.51	23.9	
30	690	29.14	64.0	
31	907	8.29	13.8	
32	10,380	75.00	10.9	Upper Marker

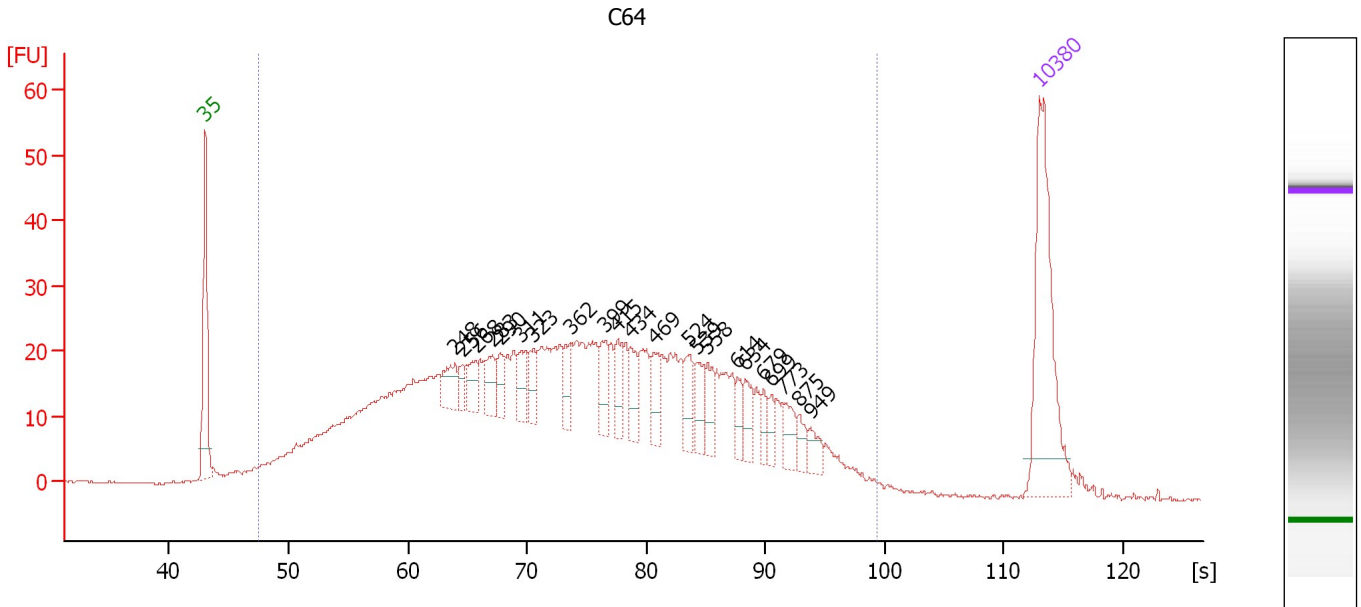
Region table for sample 7 : C63

From [s]	To [s]	Average Size [bp]	Molarity [pmol/l]	Conc. [pg/μl]	Corr. Area % of Total	Size distribution in CV [%]	Color	
47.35	97.92	384	11,030.6	1,843.87	1,444.0	97	50.6	

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Electropherogram Summary Continued ...



Overall Results for sample 8 : C64

Number of peaks found: 22 Corr. Area 1: 1,125.3
 Noise: 0.1

Peak table for sample 8 : C64

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
1	35	125.00	5,411.3	Lower Marker
2	248	19.40	118.4	
3	256	9.05	53.6	
4	268	16.52	93.5	
5	283	19.17	102.5	
6	290	12.44	64.9	
7	311	17.09	83.4	
8	323	12.48	58.5	
9	362	15.20	63.6	
10	399	17.53	66.6	
11	415	15.63	57.0	
12	434	15.60	54.5	
13	469	19.05	61.5	
14	524	17.37	50.2	
15	539	16.37	46.0	
16	558	14.63	39.7	
17	614	9.14	22.6	
18	634	14.29	34.1	
19	679	8.76	19.5	
20	699	8.44	18.3	
21	773	13.56	26.6	
22	875	7.46	12.9	
23	949	8.61	13.7	
24	10,380	75.00	10.9	Upper Marker

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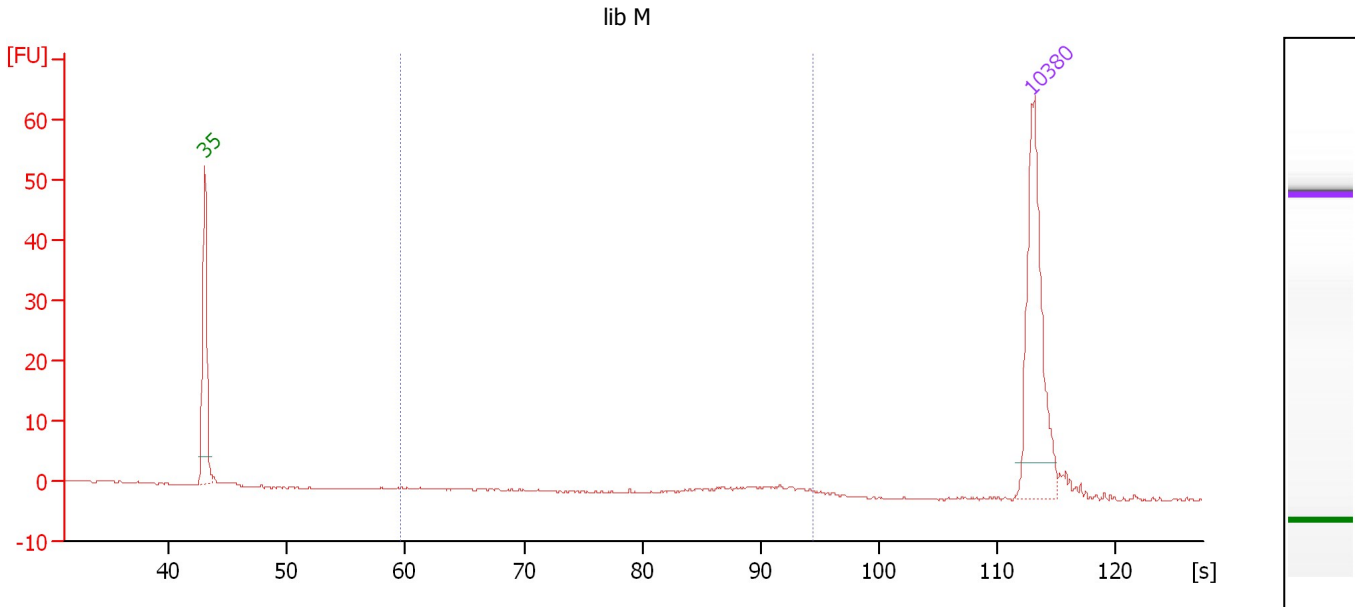
Electropherogram Summary Continued ...**... Region table for sample 8 : C64**

From [s]	To [s]	Average Size [bp]	Molarity [pmol/l]	Conc. [pg/μl]	Corr. Area % of Total	Size distribution in CV [%]	Co lor
47.45	99.35	416	8,583.8	1,487.21	1,125.3	97	56.7

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Electropherogram Summary Continued ...



Overall Results for sample 9 : lib M

Number of peaks found: 0 Corr. Area 1: 8.5
 Noise: 0.1

Peak table for sample 9 : lib M

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

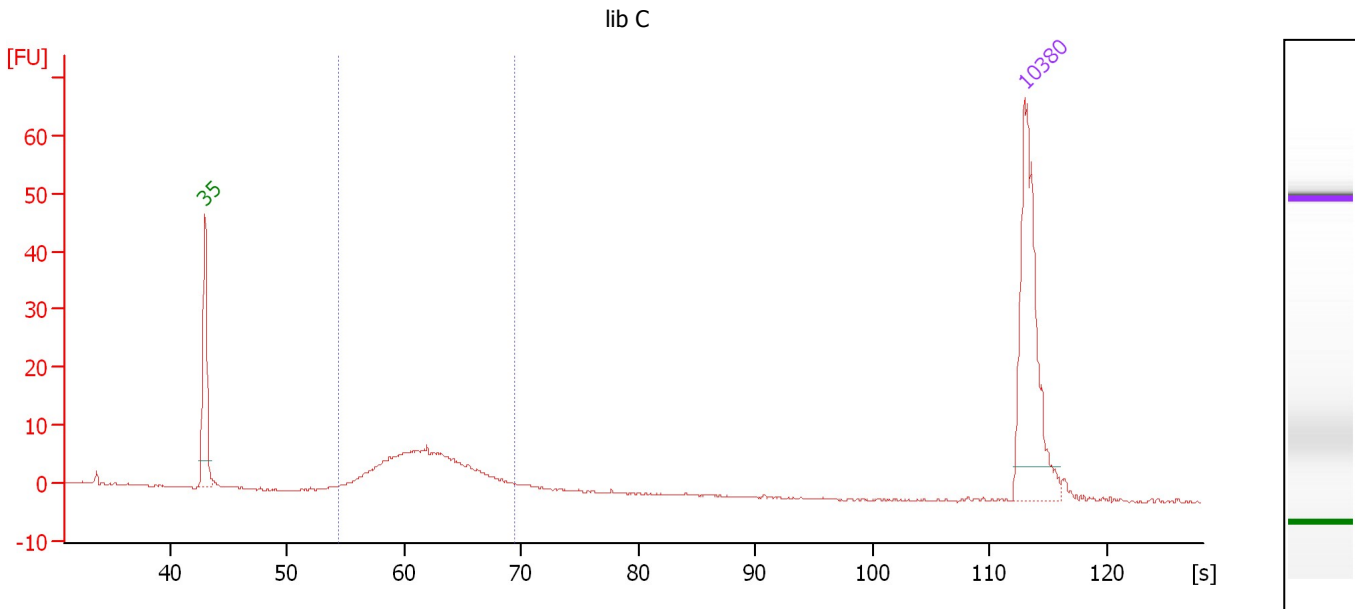
Region table for sample 9 : lib M

From [s]	To [s]	Average Size [bp]	Molarity [pmol/l]	Conc. [pg/μl]	Corr. Area	% of Total	Size distribution in CV [%]	Color
59.62	94.48	714	21.1	9.64	8.5	53	17.8	Blue

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Electropherogram Summary Continued ...



Overall Results for sample 10 : lib C

Number of peaks found: 0 Corr. Area 1: 98.3
 Noise: 0.1

Peak table for sample 10 : lib C

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

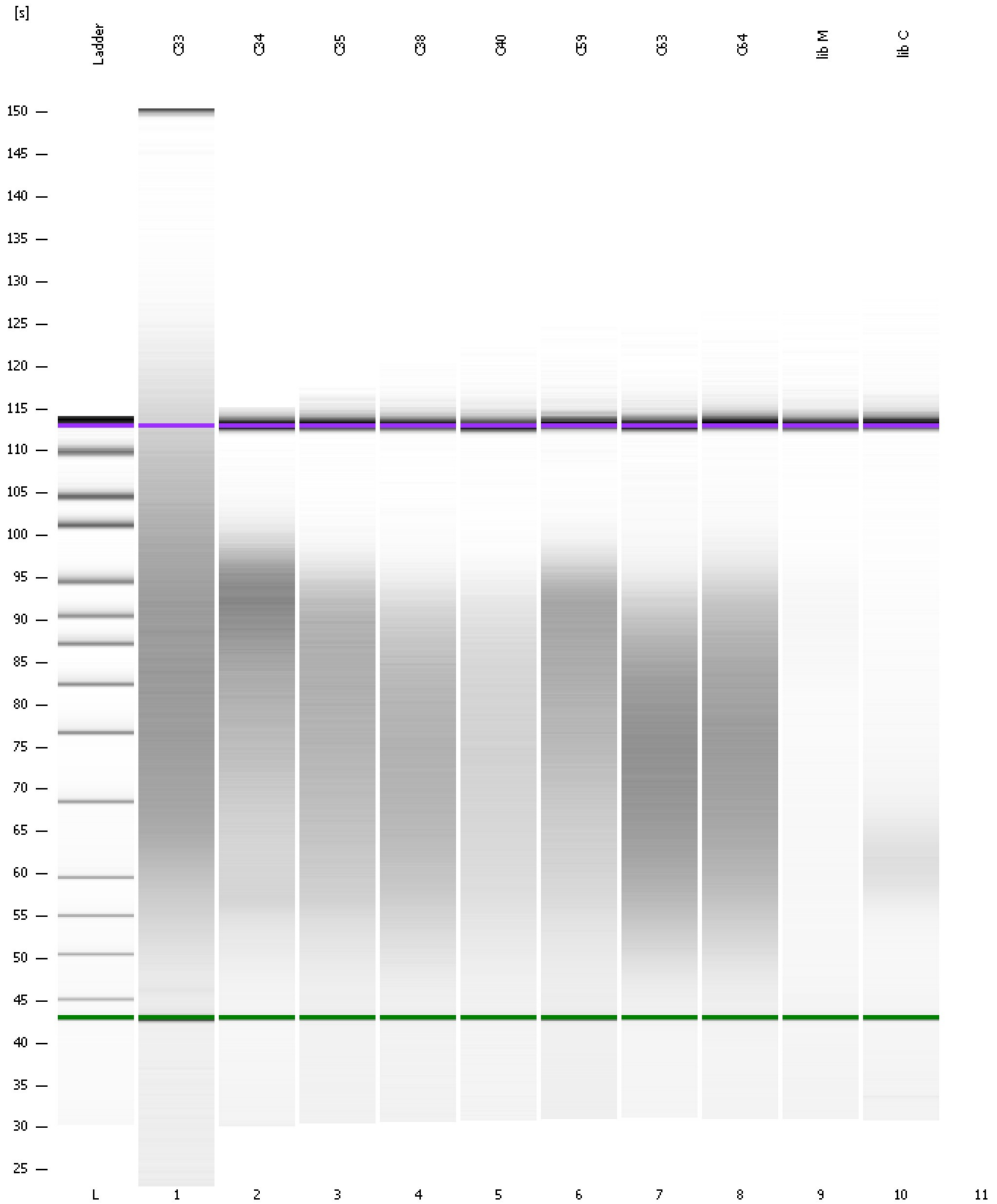
Region table for sample 10 : lib C

From [s]	To [s]	Average Size [bp]	Molarity [pmol/l]	Conc. [pg/μl]	Corr. Area % of Total	Size distribution in CV [%]	Color	
54.48	69.48	226	911.0	132.13	98.3	89	16.1	Blue

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Gel Image



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Invalid Samples

Sample 11 has not been run, no results available.

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\...ents and Settings\Bioanalyzer\2013-01-18\2013-01-18_001.xad

Created: 1/18/2013 9:32:16 AM
 Modified: 1/18/2013 10:12:04 AM

Run Logbook

Description	Number	Source	Category	Sub Category	Time	Time Zone	User	Host
Run ended on port 1 (Number of wells acquired: 11)		Instrument	Run		1/18/2013 10:10:43 AM	(GMT --08:00) Pacific Standard Time	UC Davis	D8XSMGH1
Run started on port 1 (File: C:\Documents and Settings\Bioanalyzer\2013-01-18\2013-01-18_001.xad)		Instrument	Run		1/18/2013 9:32:21 AM	(GMT --08:00) Pacific Standard Time	UC Davis	D8XSMGH1
Product Number : G2938B		Instrument	Run		1/18/2013 9:32:21 AM	(GMT --08:00) Pacific Standard Time	UC Davis	D8XSMGH1
Name :		Instrument	Run		1/18/2013 9:32:21 AM	(GMT --08:00) Pacific Standard Time	UC Davis	D8XSMGH1
Vendor : Agilent Technologies		Instrument	Run		1/18/2013 9:32:21 AM	(GMT --08:00) Pacific Standard Time	UC Davis	D8XSMGH1
Serial# : DE13701086		Instrument	Run		1/18/2013 9:32:21 AM	(GMT --08:00) Pacific Standard Time	UC Davis	D8XSMGH1
Firmware : C.01.069		Instrument	Run		1/18/2013 9:32:21 AM	(GMT --08:00) Pacific Standard Time	UC Davis	D8XSMGH1
Cartridge : Electrode		Instrument	Run		1/18/2013 9:32:21 AM	(GMT --08:00) Pacific Standard Time	UC Davis	D8XSMGH1