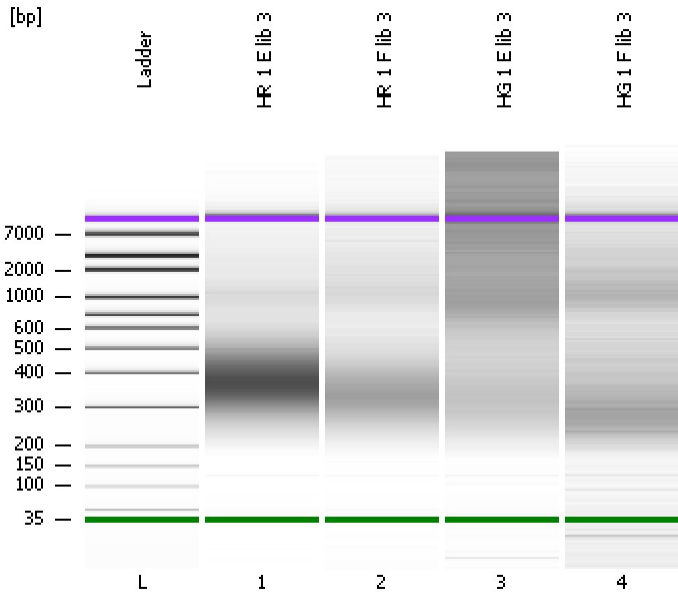


Assay Class: High Sensitivity DNA Assay
Data Path: C:\...ttings\Bioanalyzer\2014-11-25\2014-11-25_005_VivianLibs.xad

Created: 11/25/2014 12:56:09 PM
Modified: 11/26/2014 11:08:45 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

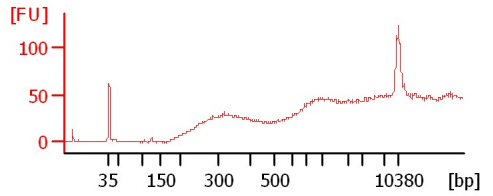
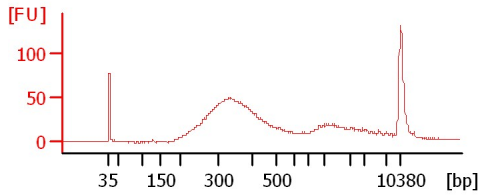
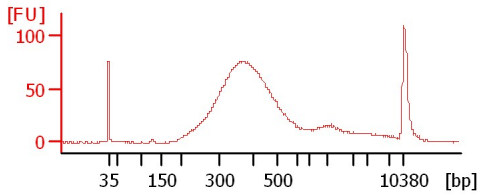
Chip Information:

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

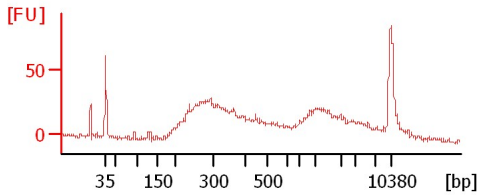
HR 1 E lib 3

HR 1 F lib 3

HG 1 E lib 3



HG 1 F lib 3



Assay Class: High Sensitivity DNA Assay
 Data Path: C:\...ttings\Bioanalyzer\2014-11-25\2014-11-25_005_VivianLibs.xad

Created: 11/25/2014 12:56:09 PM
 Modified: 11/26/2014 11:08:45 AM

Electrophoresis File Run Summary (Chip Summary)

Sample Name	Sample Comment	Rest. Digest	Status	Observation	Result Label	Result Color
HR 1 E lib 3		<input type="checkbox"/>	✓			
HR 1 F lib 3		<input type="checkbox"/>	✓			
HG 1 E lib 3		<input type="checkbox"/>	✓			
HG 1 F lib 3		<input type="checkbox"/>	✓			
Ladder		<input type="checkbox"/>	✓			

Chip Lot #

Reagent Kit Lot #

Chip Comments :

Assay Class: High Sensitivity DNA Assay
Data Path: C:\...ttings\Bioanalyzer\2014-11-25\2014-11-25_005_VivianLibs.xad

Created: 11/25/2014 12:56:09 PM
Modified: 11/26/2014 11:08:45 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/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

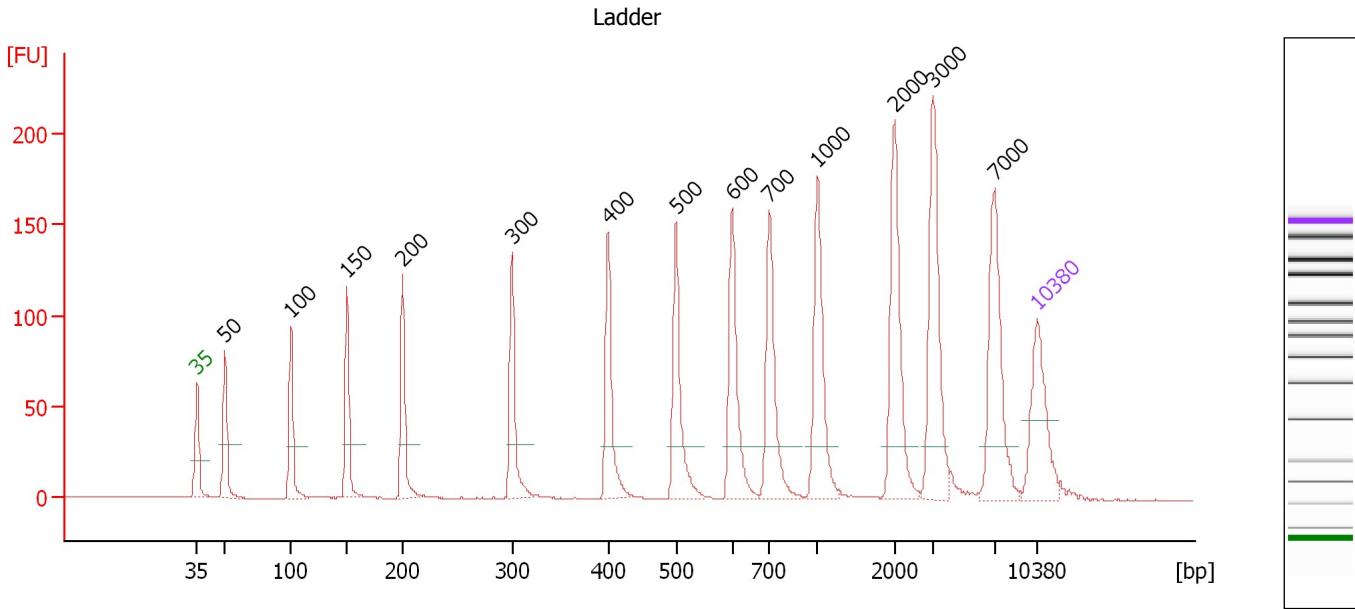
Ladder

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

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\...ttings\Bioanalyzer\2014-11-25\2014-11-25_005_VivianLibs.xad

Created: 11/25/2014 12:56:09 PM
 Modified: 11/26/2014 11:08:45 AM

Electropherogram Summary



Overall Results for Ladder

Noise: 0.1

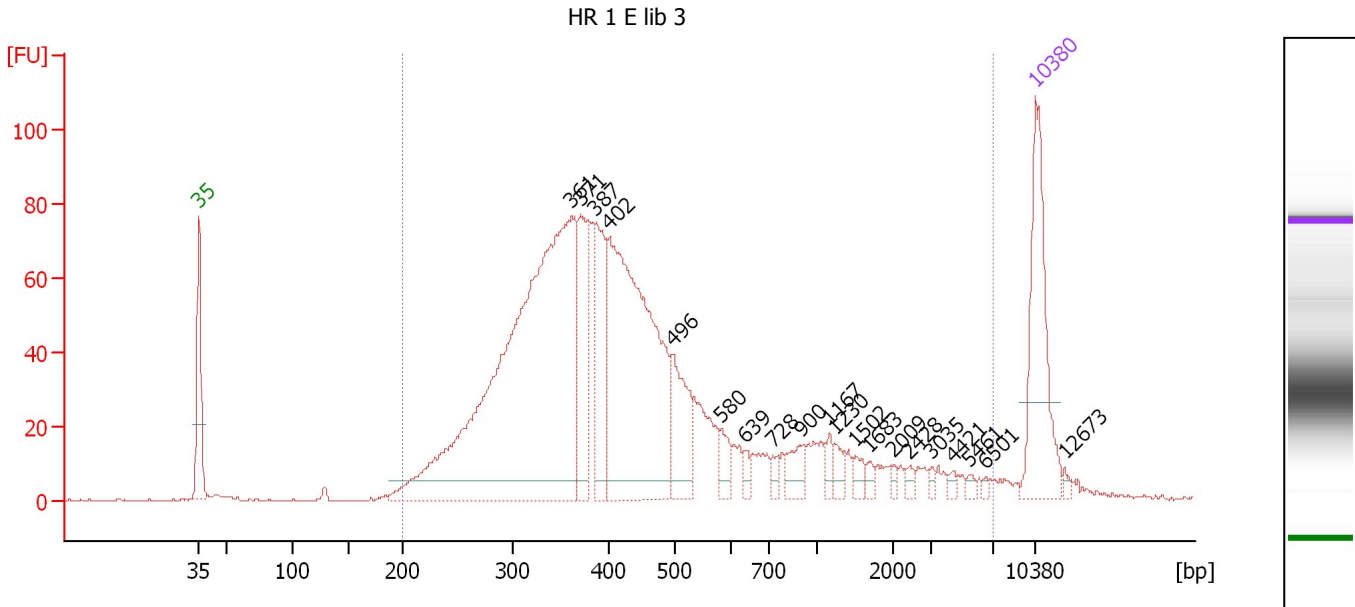
Peak table for Ladder

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	3,000	150.00	75.8	Ladder Peak
14	7,000	150.00	32.5	Ladder Peak
15	10,380	75.00	10.9	Upper Marker

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\...ttings\Bioanalyzer\2014-11-25\2014-11-25_005_VivianLibs.xad

Created: 11/25/2014 12:56:09 PM
 Modified: 11/26/2014 11:08:45 AM

Electropherogram Summary Continued ...



Overall Results for sample 1 : HR 1 E lib 3

Number of peaks found: 20 Corr. Area 1: 1,827.3
 Noise: 0.2

Peak table for sample 1 : HR 1 E lib 3

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
1	35	125.00	5,411.3	Lower Marker
2	361	585.28	2,457.4	
3	371	79.99	326.3	
4	387	77.44	303.5	
5	402	295.35	1,114.5	
6	496	58.30	178.2	
7	580	13.90	36.3	
8	639	5.94	14.1	
9	728	6.59	13.7	
10	900	14.78	24.9	
11	1,167	7.02	9.1	
12	1,230	8.82	10.9	
13	1,502	7.45	7.5	
14	1,683	4.07	3.7	
15	2,009	2.91	2.2	
16	2,428	4.30	2.7	
17	3,035	2.77	1.4	
18	4,421	3.02	1.0	
19	5,461	2.76	0.8	
20	6,501	1.71	0.4	
21	10,380	75.00	10.9	Upper Marker
22	12,673	0.00	0.0	

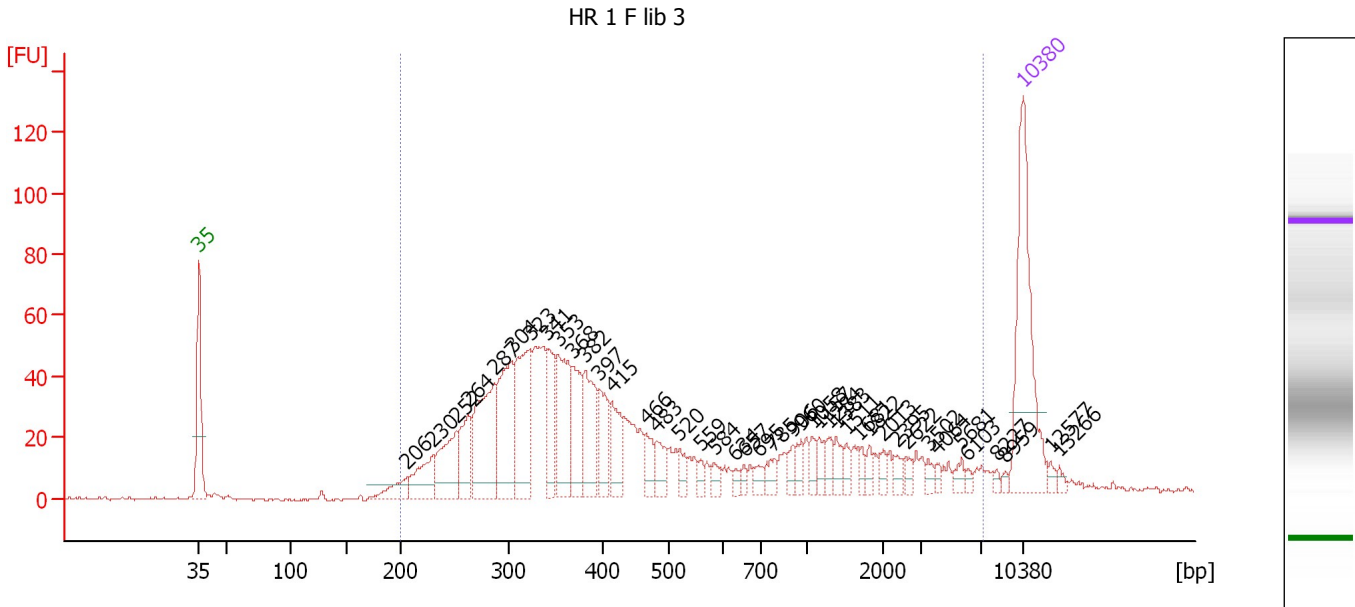
Region table for sample 1 : HR 1 E lib 3

From [bp]	Average Size [bp]	To [bp]	Corr. Area	% of Total	Size distribution in CV [%]	Conc. [pg/μl]	Molarity [pmol/l]	Color
200	613	6,987	1,827.3	98	100.0	1,397.98	5,499.7	Blue

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\...ttings\Bioanalyzer\2014-11-25\2014-11-25_005_VivianLibs.xad

Created: 11/25/2014 12:56:09 PM
 Modified: 11/26/2014 11:08:45 AM

Electropherogram Summary Continued ...



Overall Results for sample 2 : HR 1 F lib 3

Number of peaks found: 42 Corr. Area 1: 1,282.4
 Noise: 0.4

Peak table for sample 2 : HR 1 F lib 3

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
1	35	125.00	5,411.3	Lower Marker
2	206	18.17	133.6	
3	230	31.01	204.0	
4	252	44.17	265.5	
5	264	33.84	194.6	
6	287	78.32	413.1	
7	304	70.05	349.0	
8	323	70.79	331.7	
9	341	37.75	167.5	
10	353	54.91	235.5	
11	368	36.40	149.8	
12	382	45.44	180.4	
13	397	27.52	105.0	
14	415	26.19	95.6	
15	466	14.83	48.2	
16	483	14.88	46.6	
17	520	8.72	25.4	
18	559	5.00	13.6	
19	584	6.85	17.8	
20	634	3.86	9.2	
21	657	4.13	9.5	
22	695	5.88	12.8	
23	785	8.08	15.6	
24	906	6.28	10.5	
25	960	7.09	11.2	
26	1,058	6.97	10.0	

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\...ttings\Bioanalyzer\2014-11-25\2014-11-25_005_VivianLibs.xad


Created: 11/25/2014 12:56:09 PM
 Modified: 11/26/2014 11:08:45 AM

Electropherogram Summary Continued ...

... Peak table for sample 2 : HR 1 F lib 3

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
27	1,157	8.10	10.6	
28	1,284	7.07	8.3	
29	1,383	7.76	8.5	
30	1,511	5.06	5.1	
31	1,681	4.86	4.4	
32	1,822	4.33	3.6	
33	2,013	4.03	3.0	
34	2,395	4.67	3.0	
35	2,622	3.38	2.0	
36	3,502	3.57	1.5	
37	4,064	2.67	1.0	
38	5,681	4.81	1.3	
39	6,103	2.06	0.5	
40	8,227	2.23	0.4	
41	8,959	1.80	0.3	
42	10,380	75.00	10.9	Upper Marker
43	12,577	0.00	0.0	
44	13,266	0.00	0.0	

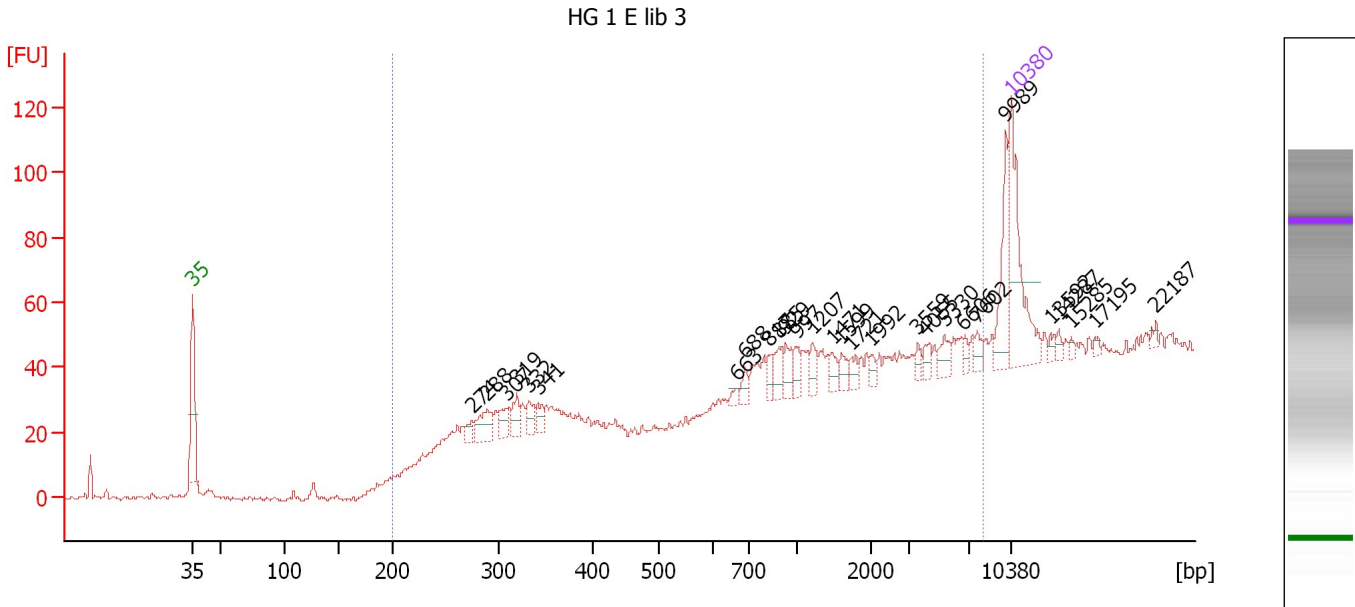
Region table for sample 2 : HR 1 F lib 3

From [bp]	Average Size [bp]	To [bp]	Corr. Area	% of Total	Size distribution in CV [%]	Conc. [pg/μl]	Molarity [pmol/l]	Color
200	782	7,136	1,282.4	97	100.0	880.67	3,539.9	

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\...ttings\Bioanalyzer\2014-11-25\2014-11-25_005_VivianLibs.xad

Created: 11/25/2014 12:56:09 PM
 Modified: 11/26/2014 11:08:45 AM

Electropherogram Summary Continued ...



Overall Results for sample 3 : HG 1 E lib 3

Number of peaks found: 28 Corr. Area 1: 428.5
 Noise: 0.8

Peak table for sample 3 : HG 1 E lib 3

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
1	35	125.00	5,411.3	Lower Marker
2	274	10.46	57.9	
3	288	26.73	140.4	
4	307	16.81	83.0	
5	319	17.32	82.3	
6	332	13.45	61.4	
7	341	10.17	45.2	
8	663	5.25	12.0	
9	688	9.52	21.0	
10	817	10.56	19.6	
11	885	14.37	24.6	
12	929	14.05	22.9	
13	997	10.74	16.3	
14	1,207	12.80	16.1	
15	1,471	9.42	9.7	
16	1,599	8.83	8.4	
17	1,721	6.69	5.9	
18	1,992	5.20	4.0	
19	3,559	5.55	2.4	
20	4,055	7.21	2.7	
21	5,330	10.85	3.1	
22	6,606	5.53	1.3	
23	7,602	7.79	1.6	
24	9,989	37.50	5.7	
25	10,380	75.00	10.9	Upper Marker
26	13,592	0.00	0.0	

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\...ttings\Bioanalyzer\2014-11-25\2014-11-25_005_VivianLibs.xad


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Electropherogram Summary Continued ...

... Peak table for sample 3 : HG 1 E lib 3

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
27	14,287	0.00	0.0	
28	15,285	0.00	0.0	
29	17,195	0.00	0.0	
30	22,187	0.00	0.0	

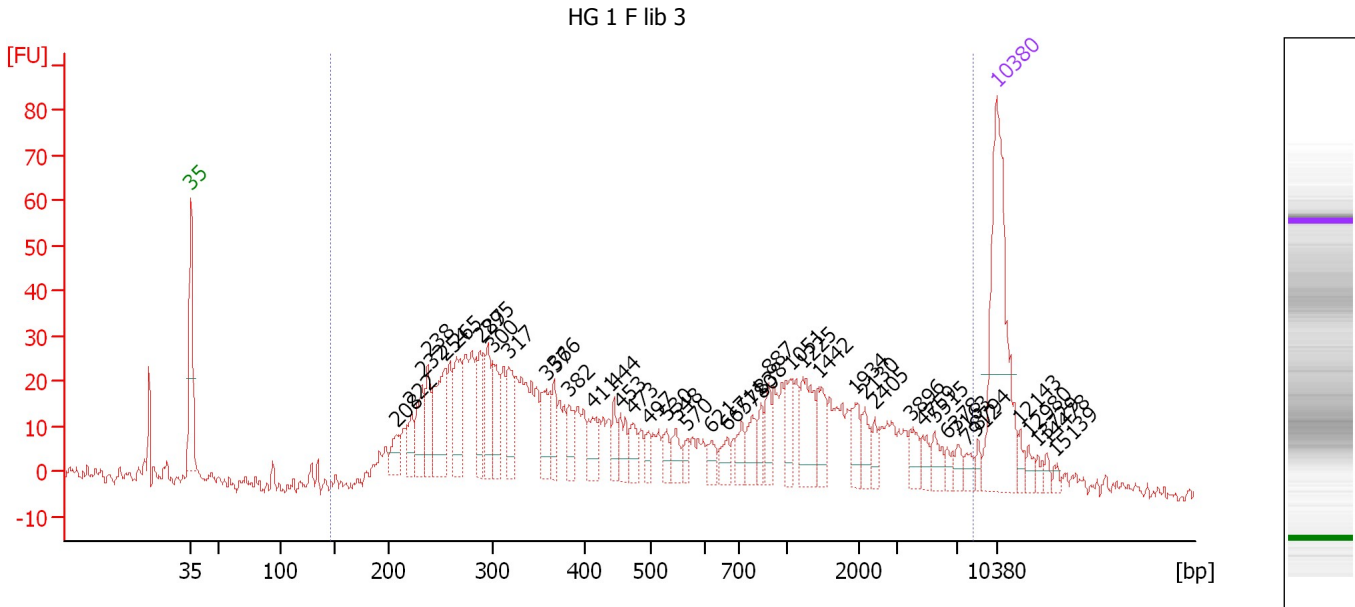
Region table for sample 3 : HG 1 E lib 3

From [bp]	Average Size [bp]	To [bp]	Corr. Area	% of Total	Size distribution in CV [%]	Conc. [pg/μl]	Molarity [pmol/l]	Color
200	1,930	8,120	428.5	78	100.0	490.02	1,305.1	

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\...ttings\Bioanalyzer\2014-11-25\2014-11-25_005_VivianLibs.xad

Created: 11/25/2014 12:56:09 PM
 Modified: 11/26/2014 11:08:45 AM

Electropherogram Summary Continued ...



Overall Results for sample 4 : HG 1 F lib 3

Number of peaks found: 45 Corr. Area 1: 1,037.1
 Noise: 1.6

Peak table for sample 4 : HG 1 F lib 3

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
1	35	125.00	5,411.3	Lower Marker
2	208	13.37	97.6	
3	222	15.16	103.4	
4	232	26.82	175.3	
5	238	21.53	137.1	
6	254	47.54	284.0	
7	265	34.23	195.9	
8	287	26.61	140.5	
9	295	26.18	134.6	
10	300	24.87	125.8	
11	317	23.21	110.9	
12	357	21.60	91.7	
13	366	14.73	61.0	
14	382	12.43	49.3	
15	411	16.59	61.1	
16	444	10.02	34.2	
17	453	13.27	44.4	
18	473	10.95	35.1	
19	497	6.93	21.1	
20	530	7.55	21.6	
21	548	10.21	28.2	
22	570	5.37	14.3	
23	621	7.39	18.0	
24	665	8.76	20.0	
25	711	9.65	20.6	
26	780	11.50	22.3	

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\...ttings\Bioanalyzer\2014-11-25\2014-11-25_005_VivianLibs.xad


Created: 11/25/2014 12:56:09 PM
 Modified: 11/26/2014 11:08:45 AM

Electropherogram Summary Continued ...

... Peak table for sample 4 : HG 1 F lib 3

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
27	838	8.48	15.3	
28	887	11.70	20.0	
29	1,051	14.94	21.5	
30	1,225	23.71	29.3	
31	1,442	14.58	15.3	
32	1,934	11.26	8.8	
33	2,130	8.78	6.2	
34	2,405	5.30	3.3	
35	3,896	7.26	2.8	
36	4,759	6.05	1.9	
37	5,515	7.60	2.1	
38	6,378	3.94	0.9	
39	7,163	4.55	1.0	
40	7,912	4.59	0.9	
41	8,794	3.20	0.6	
42	10,380	75.00	10.9	Upper Marker
43	12,143	0.00	0.0	
44	12,980	0.00	0.0	
45	13,729	0.00	0.0	
46	14,478	0.00	0.0	
47	15,139	0.00	0.0	

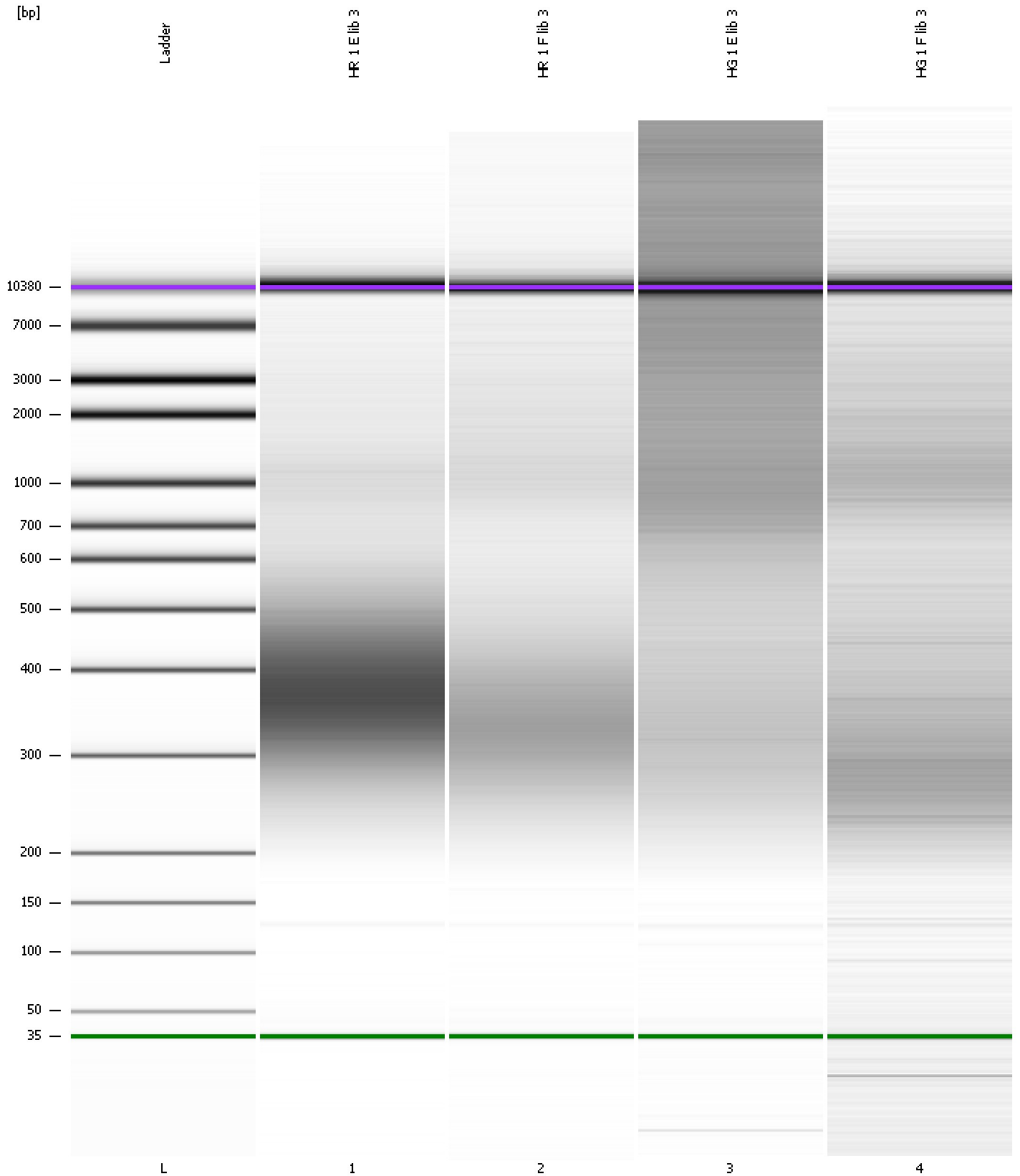
Region table for sample 4 : HG 1 F lib 3

From [bp]	Average Size [bp]	To [bp]	Corr. Area	% of Total	Size distribution in CV [%]	Conc. [pg/μl]	Molarity [pmol/l]	Color
145	1,090	8,416	1,037.1	94	100.0	905.46	3,527.8	

Assay Class: High Sensitivity DNA Assay
Data Path: C:\...ttings\Bioanalyzer\2014-11-25\2014-11-25_005_VivianLibs.xad

Created: 11/25/2014 12:56:09 PM
Modified: 11/26/2014 11:08:45 AM

Gel Image



Assay Class: High Sensitivity DNA Assay
 Data Path: C:\...ttings\Bioanalyzer\2014-11-25\2014-11-25_005_VivianLibs.xad

Created: 11/25/2014 12:56:09 PM
 Modified: 11/26/2014 11:08:45 AM

Run Logbook

Description	Number	Source	Category	Sub Category	Time	Time Zone	User	Host
Run ended on port 1 (Number of wells acquired: 12)		Instrument	Run		11/25/2014 1:37:27 PM	(GMT --08:00) Pacific Standard Time	UC Davis	D8XSMGH1
Instrument error occurred on port 1, Optical signal too high (1605h)	559	Instrument	Run	Sample 11	11/25/2014 1:35:38 PM	(GMT --08:00) Pacific Standard Time	UC Davis	D8XSMGH1
Run started on port 1 (File: C:\Documents and Settings\Bioanalyzer\2014-11-25\2014-11-25_005.xad)		Instrument	Run		11/25/2014 12:56:14 PM	(GMT --08:00) Pacific Standard Time	UC Davis	D8XSMGH1
Product Number : G2938B		Instrument	Run		11/25/2014 12:56:14 PM	(GMT --08:00) Pacific Standard Time	UC Davis	D8XSMGH1
Name :		Instrument	Run		11/25/2014 12:56:14 PM	(GMT --08:00) Pacific Standard Time	UC Davis	D8XSMGH1
Vendor : Agilent Technologies		Instrument	Run		11/25/2014 12:56:14 PM	(GMT --08:00) Pacific Standard Time	UC Davis	D8XSMGH1
Serial# : DE13701086		Instrument	Run		11/25/2014 12:56:14 PM	(GMT --08:00) Pacific Standard Time	UC Davis	D8XSMGH1
Firmware : C.01.069		Instrument	Run		11/25/2014 12:56:14 PM	(GMT --08:00) Pacific Standard Time	UC Davis	D8XSMGH1
Cartridge : Electrode		Instrument	Run		11/25/2014 12:56:14 PM	(GMT --08:00) Pacific Standard Time	UC Davis	D8XSMGH1