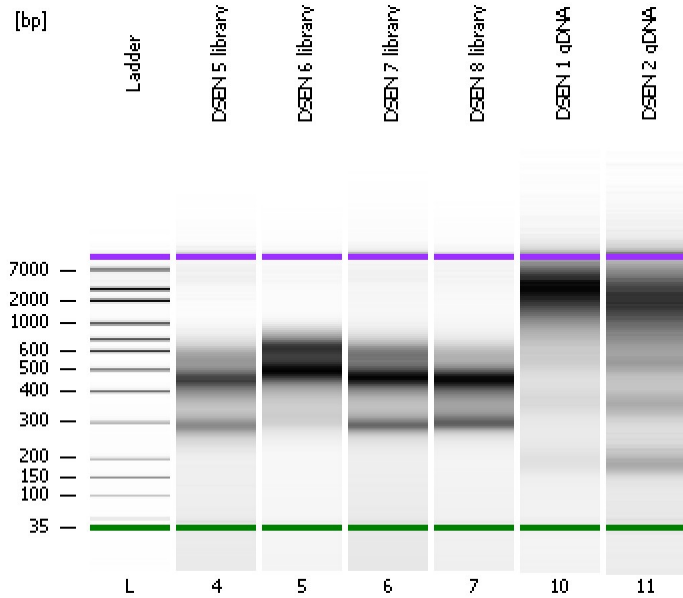


Assay Class: High Sensitivity DNA Assay
 Data Path: C:\...15-12-08\2015-12-08_002_HiSeq283_Libraries_5-8_gDNA_1-2.xad

Created: 12/8/2015 2:14:24 PM
 Modified: 12/8/2015 3:37:00 PM

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

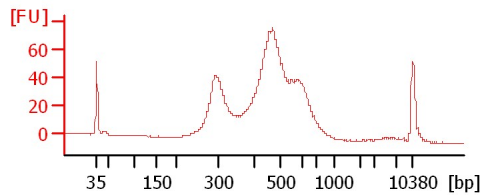
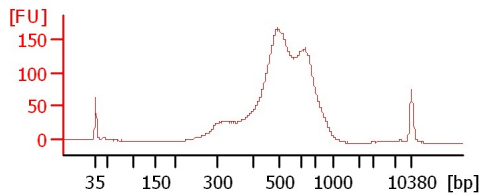
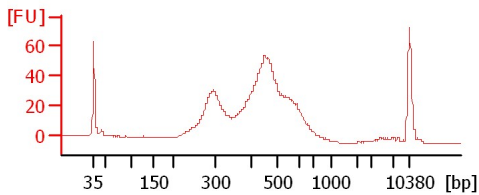
Chip Information:

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

DSEN 5 library

DSEN 6 library

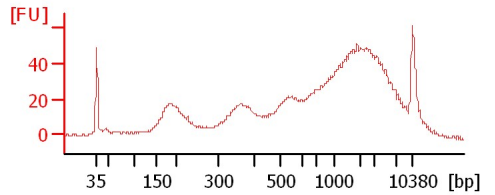
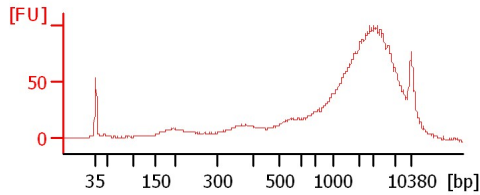
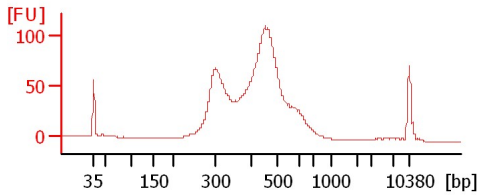
DSEN 7 library



DSEN 8 library

DSEN 1 gDNA

DSEN 2 gDNA



Assay Class: High Sensitivity DNA Assay
 Data Path: C:\...15-12-08\2015-12-08_002_HiSeq283_Libraries_5-8_gDNA_1-2.xad

Created: 12/8/2015 2:14:24 PM
 Modified: 12/8/2015 3:37:00 PM

Electrophoresis File Run Summary (Chip Summary)

Sample Name	Sample Comment	Rest. Digest	Status	Observation	Result Label	Result Color
DSEN 5 library		<input type="checkbox"/>	✓			
DSEN 6 library		<input type="checkbox"/>	✓			
DSEN 7 library		<input type="checkbox"/>	✓			
DSEN 8 library		<input type="checkbox"/>	✓			
DSEN 1 gDNA		<input type="checkbox"/>	✓			
DSEN 2 gDNA		<input type="checkbox"/>	✓			
Ladder		<input type="checkbox"/>	✓			

Chip Lot #

Reagent Kit Lot #

Chip Comments :

Assay Class: High Sensitivity DNA Assay
Data Path: C:\...15-12-08\2015-12-08_002_HiSeq283_Libraries_5-8_gDNA_1-2.xad

Created: 12/8/2015 2:14:24 PM
Modified: 12/8/2015 3:37:00 PM

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

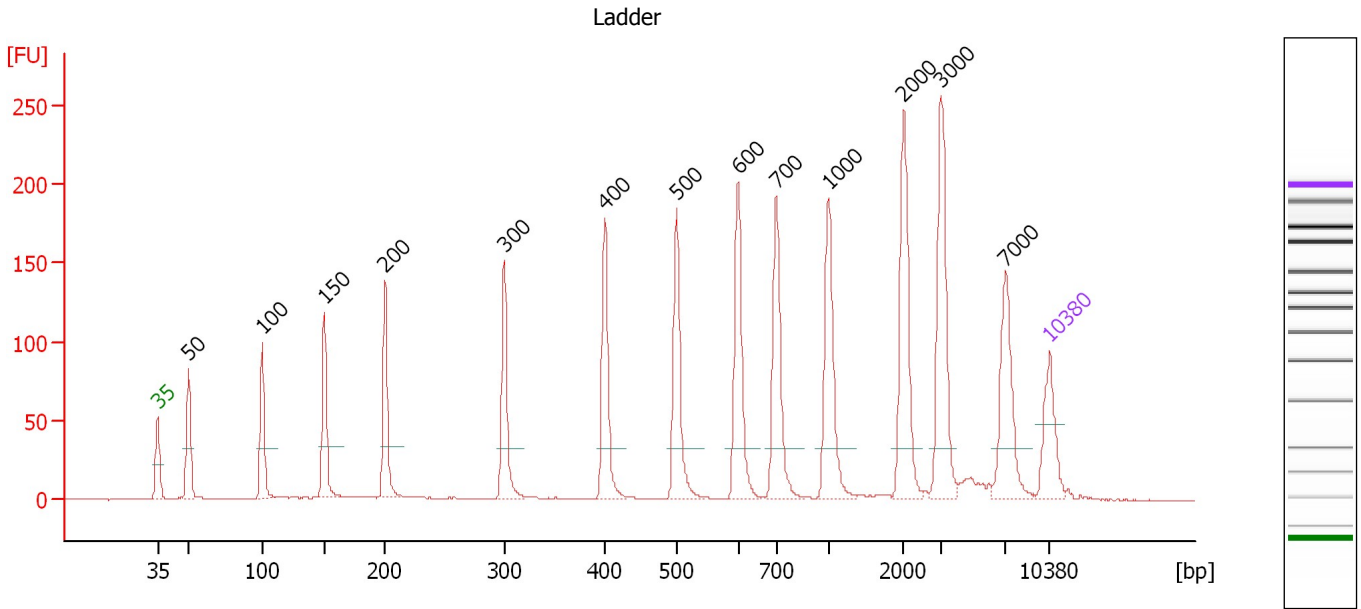
Ladder

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:\...15-12-08\2015-12-08_002_HiSeq283_Libraries_5-8_gDNA_1-2.xad

Created: 12/8/2015 2:14:24 PM
 Modified: 12/8/2015 3:37:00 PM

Electropherogram Summary



Overall Results for Ladder

Noise: 0.2

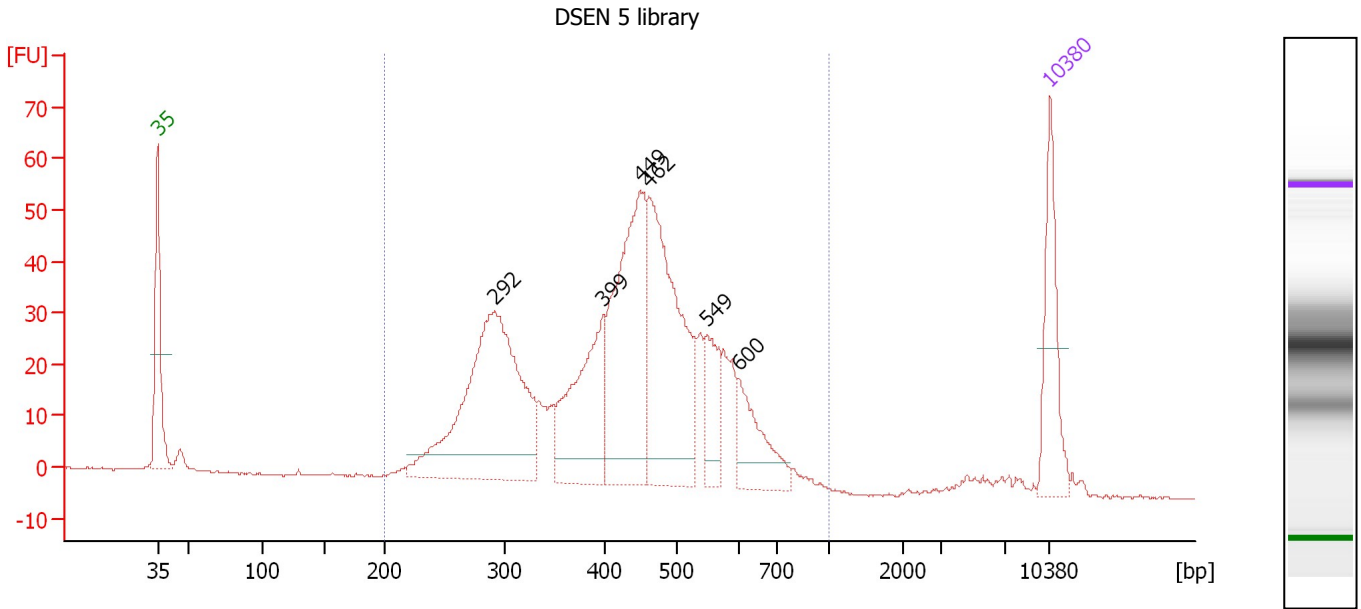
Peak table for Ladder

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations	Aligned Migration Time [s]
1	35	125.00	5,411.3	Lower Marker	43.00
2	50	150.00	4,545.5	Ladder Peak	45.45
3	100	150.00	2,272.7	Ladder Peak	51.21
4	150	150.00	1,515.2	Ladder Peak	56.10
5	200	150.00	1,136.4	Ladder Peak	60.86
6	300	150.00	757.6	Ladder Peak	70.18
7	400	150.00	568.2	Ladder Peak	78.07
8	500	150.00	454.5	Ladder Peak	83.70
9	600	150.00	378.8	Ladder Peak	88.54
10	700	150.00	324.7	Ladder Peak	91.54
11	1,000	150.00	227.3	Ladder Peak	95.60
12	2,000	150.00	113.6	Ladder Peak	101.51
13	3,000	150.00	75.8	Ladder Peak	104.46
14	7,000	150.00	32.5	Ladder Peak	109.49
15	10,380	75.00	10.9	Upper Marker	113.00

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\...15-12-08\2015-12-08_002_HiSeq283_Libraries_5-8_gDNA_1-2.xad

Created: 12/8/2015 2:14:24 PM
 Modified: 12/8/2015 3:37:00 PM

Electropherogram Summary Continued ...



Overall Results for sample 4 : DSEN 5 library

Number of peaks found: 6 Corr. Area 1: 933.8
 Noise: 0.2

Peak table for sample 4 : DSEN 5 library

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations	Aligned Migration Time [s]
1	35	125.00	5,411.3	Lower Marker	43.00
2	292	417.85	2,169.4		69.42
3	399	173.46	659.5		77.95
4	449	276.66	933.6		80.83
5	462	281.71	924.3		81.55
6	549	58.31	161.0		86.05
7	600	73.34	185.2		88.55
8	10,380	75.00	10.9	Upper Marker	113.00

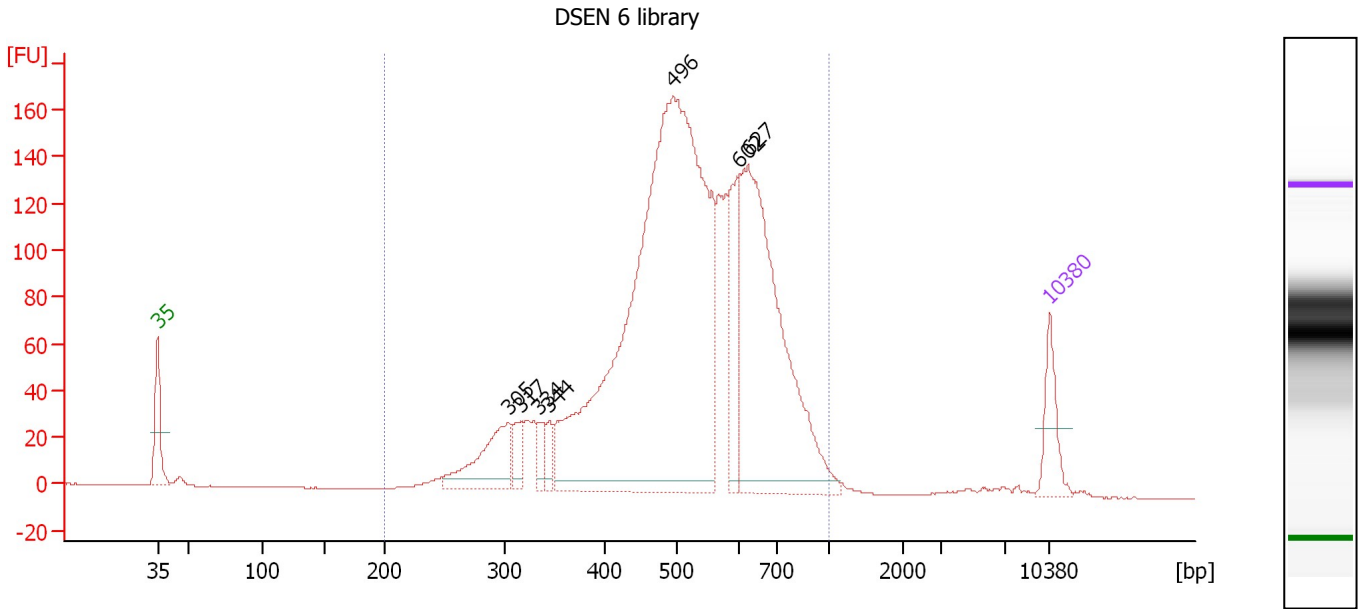
Region table for sample 4 : DSEN 5 library

From [bp]	To [bp]	Average Size [bp]	Corr. Area	Molarity [pmol/l]	Co Conc. lor [pg/μl]	% of Total	Size distribution in CV [%]
200	1,000	433	933.8	5,559.2	1,428.19	97	26.3

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\...15-12-08\2015-12-08_002_HiSeq283_Libraries_5-8_gDNA_1-2.xad

Created: 12/8/2015 2:14:24 PM
 Modified: 12/8/2015 3:37:00 PM

Electropherogram Summary Continued ...



Overall Results for sample 5 : DSEN 6 library

Number of peaks found: 7 Corr. Area 1: 2,592.9
 Noise: 0.2

Peak table for sample 5 : DSEN 6 library

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations	Aligned Migration Time [s]
1	35	125.00	5,411.3	Lower Marker	43.00
2	305	201.96	1,004.2		70.55
3	317	49.67	237.3		71.53
4	334	41.34	187.7		72.84
5	344	40.52	178.4		73.67
6	496	2,169.28	6,631.7		83.45
7	602	191.84	482.6		88.61
8	627	827.09	1,999.9		89.34
9	10,380	75.00	10.9	Upper Marker	113.00

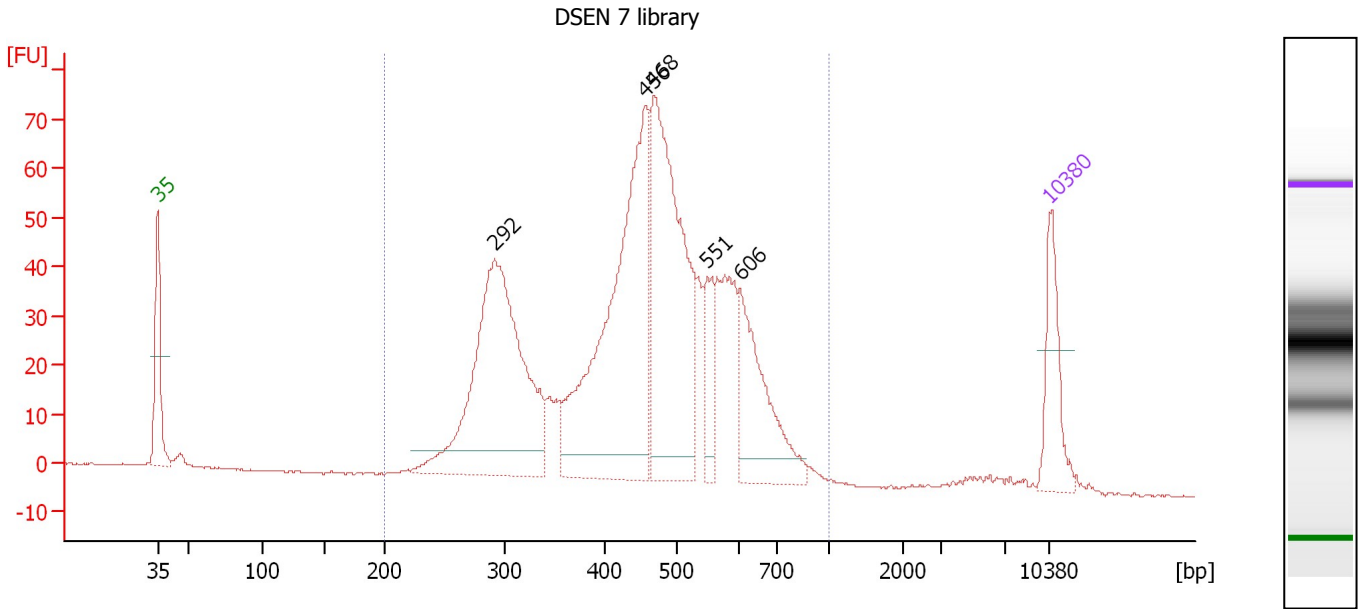
Region table for sample 5 : DSEN 6 library

From [bp]	To [bp]	Average Size [bp]	Corr. Area	Molarity [pmol/l]	Co Conc. [pg/μl]	% of Total	Size distribution in CV [%]
200	1,000	528	2,592.9	12,184.7	3,862.20	98	24.7

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\...15-12-08\2015-12-08_002_HiSeq283_Libraries_5-8_gDNA_1-2.xad

Created: 12/8/2015 2:14:24 PM
 Modified: 12/8/2015 3:37:00 PM

Electropherogram Summary Continued ...



Overall Results for sample 6 : DSEN 7 library

Number of peaks found: 5 Corr. Area 1: 1,194.1
 Noise: 0.1

Peak table for sample 6 : DSEN 7 library

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations	Aligned Migration Time [s]
1	35	125.00	5,411.3	Lower Marker	43.00
2	292	580.96	3,012.3		69.45
3	456	573.04	1,903.7		81.23
4	468	467.46	1,512.3		81.92
5	551	67.23	185.0		86.15
6	606	175.50	439.0		88.71
7	10,380	75.00	10.9	Upper Marker	113.00

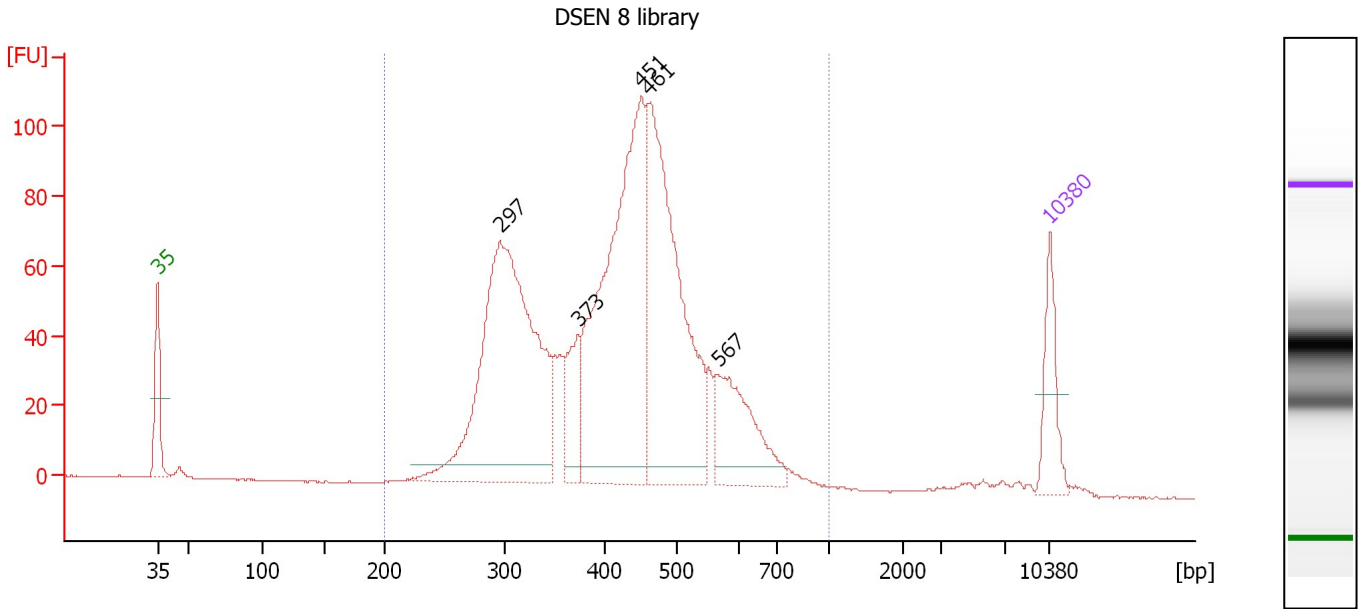
Region table for sample 6 : DSEN 7 library

From [bp]	To [bp]	Average Size [bp]	Corr. Area	Molarity [pmol/l]	Co Conc. lor [pg/μl]	% of Total	Size distribution in CV [%]
200	1,000	457	1,194.1	7,952.9	2,152.10	97	26.4

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\...15-12-08\2015-12-08_002_HiSeq283_Libraries_5-8_gDNA_1-2.xad

Created: 12/8/2015 2:14:24 PM
 Modified: 12/8/2015 3:37:00 PM

Electropherogram Summary Continued ...



Overall Results for sample 7 : DSEN 8 library

Number of peaks found: 5 Corr. Area 1: 1,657.5
 Noise: 0.1

Peak table for sample 7 : DSEN 8 library

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations	Aligned Migration Time [s]
1	35	125.00	5,411.3	Lower Marker	43.00
2	297	854.08	4,360.0		69.88
3	373	107.53	436.2		75.98
4	451	727.50	2,445.7		80.92
5	461	613.82	2,015.9		81.52
6	567	187.63	501.0		86.97
7	10,380	75.00	10.9	Upper Marker	113.00

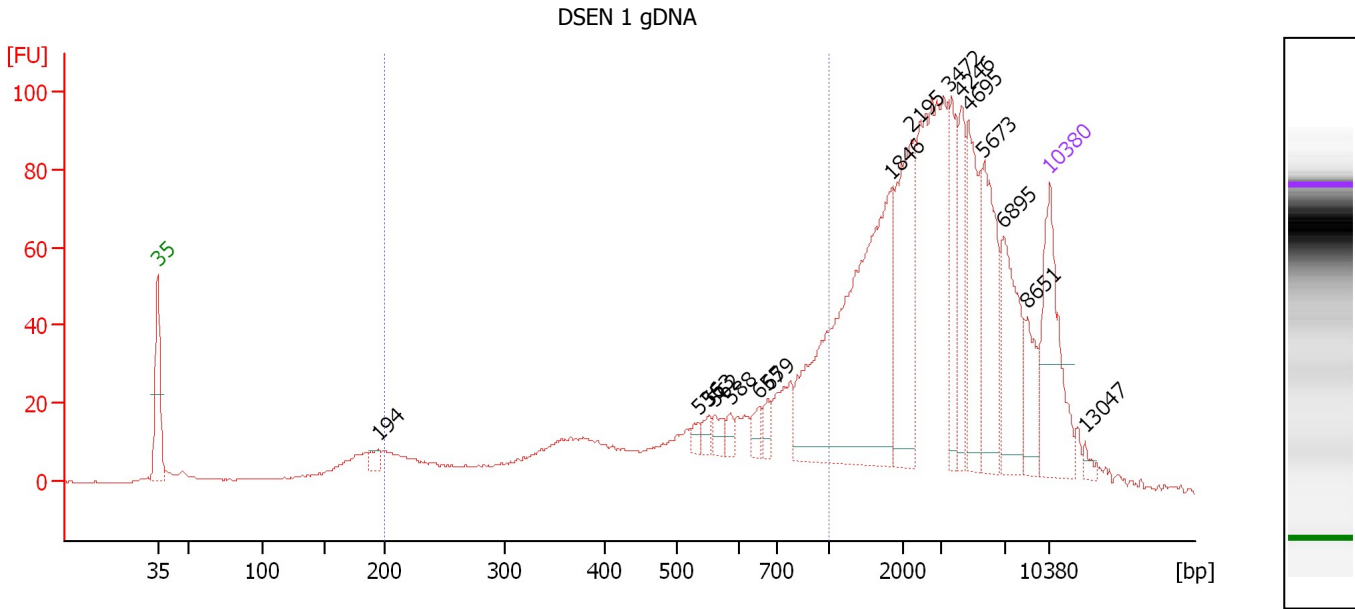
Region table for sample 7 : DSEN 8 library

From [bp]	To [bp]	Average Size [bp]	Corr. Area	Molarity [pmol/l]	Co Conc. lor [pg/μl]	% of Total	Size distribution in CV [%]
200	1,000	427	1,657.5	10,229.1	2,647.73	98	24.6

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\...15-12-08\2015-12-08_002_HiSeq283_Libraries_5-8_gDNA_1-2.xad

Created: 12/8/2015 2:14:24 PM
 Modified: 12/8/2015 3:37:00 PM

Electropherogram Summary Continued ...



Overall Results for sample 10 : DSEN 1 gDNA

Number of peaks found: 16 Corr. Area 1: 564.7
 Noise: 0.2

Peak table for sample 10 : DSEN 1 gDNA

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations	Aligned Migration Time [s]
1	35	125.00	5,411.3	Lower Marker	43.00
2	194	11.30	88.4		60.27
3	536	7.17	20.3		85.43
4	553	8.50	23.3		86.25
5	562	10.02	27.0		86.71
6	588	8.44	21.8		87.94
7	655	11.88	27.5		90.20
8	679	11.11	24.8		90.91
9	1,846	260.61	213.9		100.60
10	2,195	103.07	71.2		102.08
11	3,472	49.33	21.5		105.06
12	4,246	44.47	15.9		106.03
13	4,695	68.08	22.0		106.59
14	5,673	77.42	20.7		107.82
15	6,895	68.77	15.1		109.36
16	8,651	28.54	5.0		111.21
17	10,380	75.00	10.9	Upper Marker	113.00
18	13,047	0.00	0.0		115.77

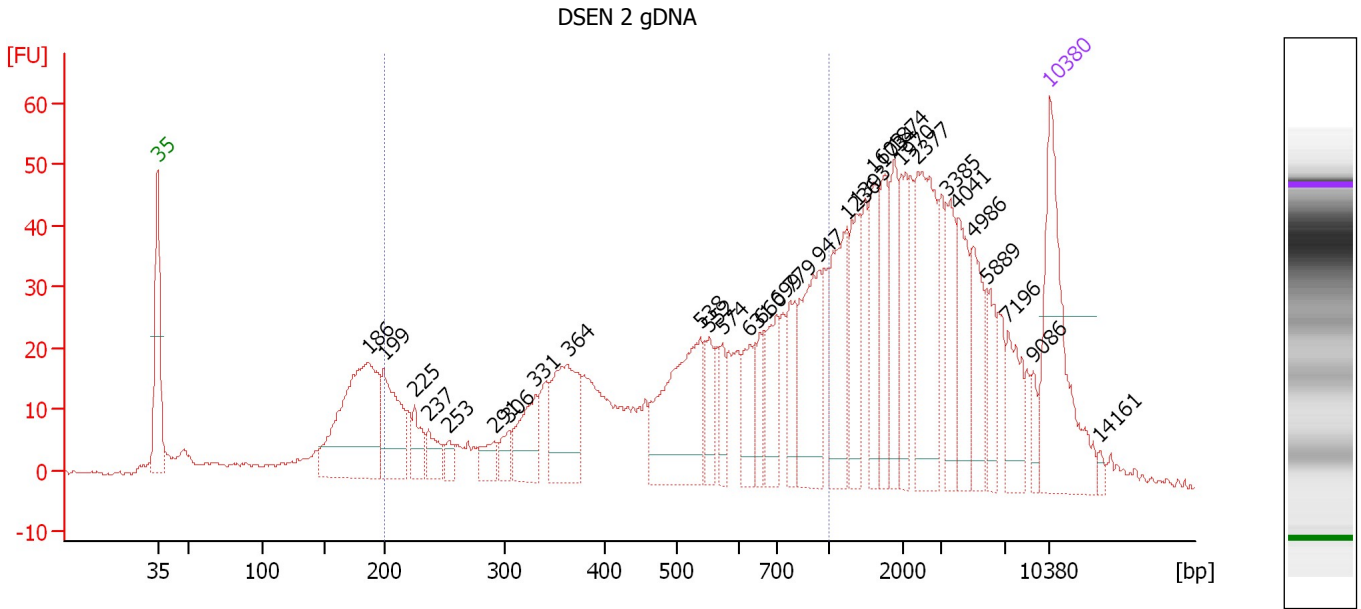
Region table for sample 10 : DSEN 1 gDNA

From [bp]	To [bp]	Average Size [bp]	Corr. Area	Molarity [pmol/l]	Co Conc. [pg/μl]	% of Total	Size distribution in CV [%]
200	1,000	565	564.7	2,079.6	592.78	31	39.2

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\...15-12-08\2015-12-08_002_HiSeq283_Libraries_5-8_gDNA_1-2.xad

Created: 12/8/2015 2:14:24 PM
 Modified: 12/8/2015 3:37:00 PM

Electropherogram Summary Continued ...



Overall Results for sample 11 : DSEN 2 gDNA

Number of peaks found: 31 Corr. Area 1: 687.8
 Noise: 0.5

Peak table for sample 11 : DSEN 2 gDNA

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations	Aligned Migration Time [s]
1	35	125.00	5,411.3	Lower Marker	43.00
2	186	142.73	1,159.8		59.57
3	199	59.27	451.4		60.76
4	225	19.99	134.6		63.18
5	237	16.11	103.1		64.27
6	253	8.13	48.7		65.82
7	291	14.81	77.0		69.38
8	306	11.93	59.2		70.62
9	331	36.36	166.4		72.63
10	364	66.99	279.0		75.21
11	538	94.08	265.0		85.54
12	552	20.63	56.6		86.21
13	574	16.61	43.8		87.29
14	631	26.11	62.7		89.46
15	660	17.51	40.2		90.34
16	699	33.97	73.6		91.53
17	779	23.69	46.1		92.61
18	947	60.24	96.4		94.88
19	1,236	53.02	65.0		97.00
20	1,393	34.38	37.4		97.93
21	1,603	30.85	29.2		99.17
22	1,734	28.87	25.2		99.94
23	1,874	33.15	26.8		100.77
24	1,970	26.18	20.1		101.33
25	2,377	70.22	44.8		102.62

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\...15-12-08\2015-12-08_002_HiSeq283_Libraries_5-8_gDNA_1-2.xad

Created: 12/8/2015 2:14:24 PM
 Modified: 12/8/2015 3:37:00 PM

Electropherogram Summary Continued ...

... Peak table for sample 11 : DSEN 2 gDNA

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations	Aligned Migration Time [s]
26	3,385	28.03	12.5		104.95
27	4,041	33.42	12.5		105.77
28	4,986	29.49	9.0		106.96
29	5,889	19.81	5.1		108.10
30	7,196	25.41	5.3		109.70
31	9,086	8.29	1.4		111.66
32	10,380	75.00	10.9	Upper Marker	113.00
33	14,161	0.00	0.0		116.92

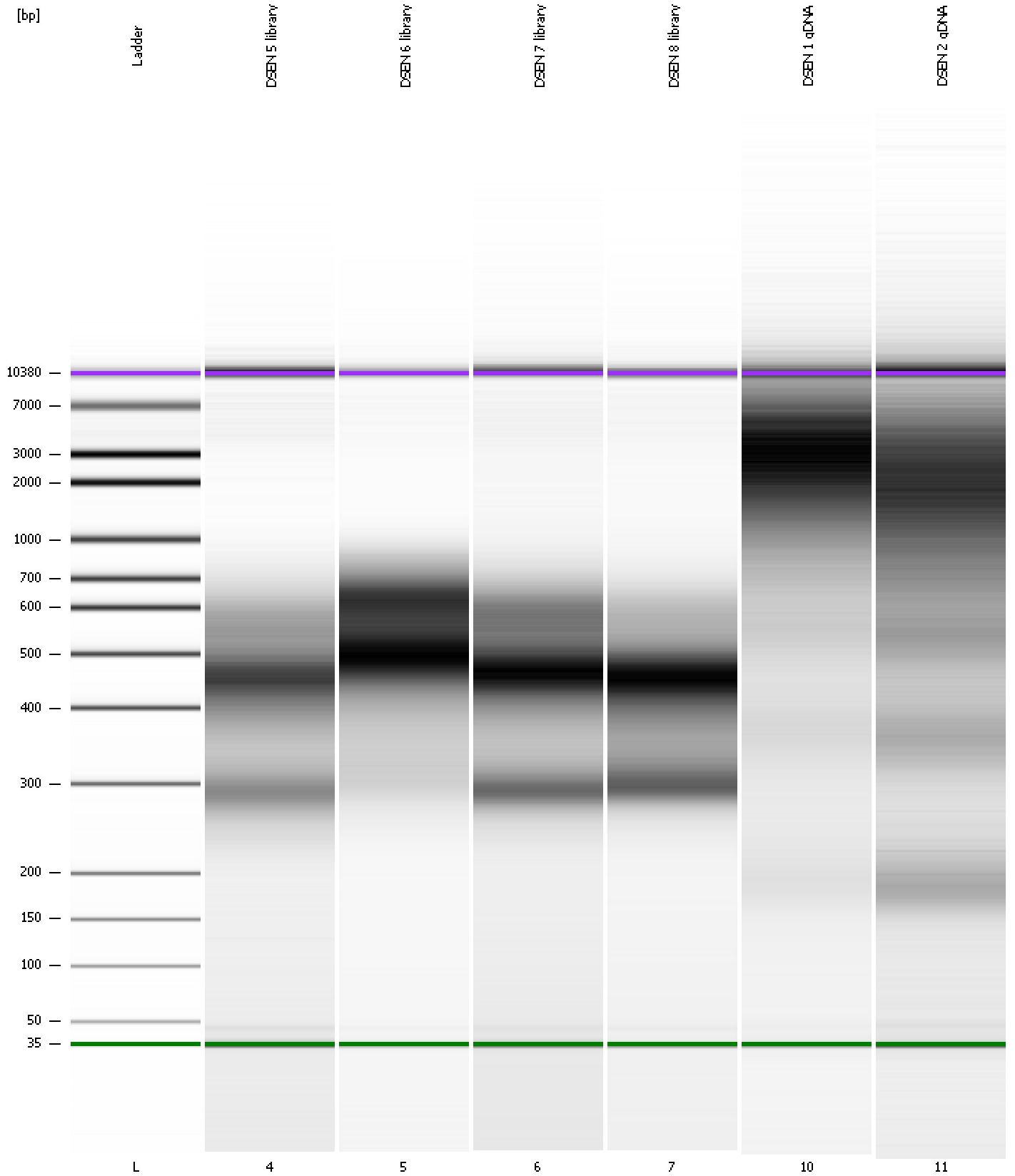
Region table for sample 11 : DSEN 2 gDNA

From [bp]	To [bp]	Average Size [bp]	Corr. Area	Molarity [pmol/l]	Co Conc. lor [pg/μl]	% of Total	Size distribution in CV [%]
200	1,000	539	687.8	2,671.9	730.91	45	39.7

Assay Class: High Sensitivity DNA Assay
Data Path: C:\...15-12-08\2015-12-08_002_HiSeq283_Libraries_5-8_gDNA_1-2.xad

Created: 12/8/2015 2:14:24 PM
Modified: 12/8/2015 3:37:00 PM

Gel Image



Assay Class: High Sensitivity DNA Assay
 Data Path: C:\...15-12-08\2015-12-08_002_HiSeq283_Libraries_5-8_gDNA_1-2.xad

Created: 12/8/2015 2:14:24 PM
 Modified: 12/8/2015 3:37:00 PM

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		12/8/2015 2:55:44 PM	(GMT --08:00) Pacific Standard Time	UC Davis	D8XSMGH1
Run started on port 1 (File: C:\Documents and Settings\Bioanal yzer\2015-12-08 \2015-12-08_00 2.xad)		Instrument	Run		12/8/2015 2:14:30 PM	(GMT --08:00) Pacific Standard Time	UC Davis	D8XSMGH1
Product Number : G2938B		Instrument	Run		12/8/2015 2:14:30 PM	(GMT --08:00) Pacific Standard Time	UC Davis	D8XSMGH1
Name :		Instrument	Run		12/8/2015 2:14:30 PM	(GMT --08:00) Pacific Standard Time	UC Davis	D8XSMGH1
Vendor : Agilent Technologies		Instrument	Run		12/8/2015 2:14:30 PM	(GMT --08:00) Pacific Standard Time	UC Davis	D8XSMGH1
Serial# : DE13701086		Instrument	Run		12/8/2015 2:14:30 PM	(GMT --08:00) Pacific Standard Time	UC Davis	D8XSMGH1
Firmware : C.01.069		Instrument	Run		12/8/2015 2:14:30 PM	(GMT --08:00) Pacific Standard Time	UC Davis	D8XSMGH1
Cartridge : Electrode		Instrument	Run		12/8/2015 2:14:30 PM	(GMT --08:00) Pacific Standard Time	UC Davis	D8XSMGH1