Assay Class: High Sensitivity DNA Assay
Data Path: C:\...Settings\Bioanalyzer\2015-04-16\2015-04-16_001_SW15Libs.xad
Created: 4/16/2015 1:43:06 PM
Modified: 4/16/2015 2:18:21 PM

Electrophoresis File Run Summary

Instrument Information:

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

Assay Information:

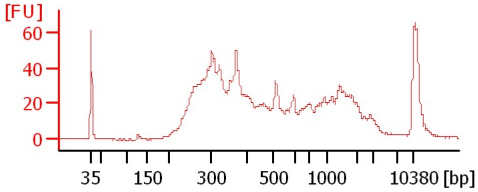
Assay Origin Path: C:\Program Files\Agilent\2100 bioanalyzer\2100 expert\assays\dsDNA\High Sensitivity DNA.xsy
Assay Class: High Sensitivity DNA Assay
Version: 1.03
Assay Comments: Copyright © 2003-2010 Agilent Technologies

Chip Information:

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

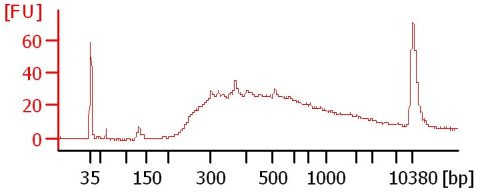
SW15-10 (1:24)

MiSeq_109_Adapter dimer cleanup



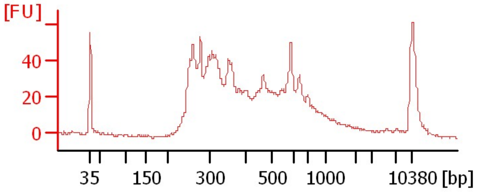
SW15-11 (1:28)

MiSeq_109_Adapter dimer cleanup



SW15-02 non frag lib

MiSeq_109



Assay Class: High Sensitivity DNA Assay
Data Path: C:\...Settings\Bioanalyzer\2015-04-16\2015-04-16_001_SW15Libs.xad
Created: 4/16/2015 1:43:06 PM
Modified: 4/16/2015 2:18:21 PM

Electrophoresis File Run Summary (Chip Summary)

Sample Name	Sample Comment	Rest. Digest	Status	Observation	Result Label	Result Color
SW15-10 (1:24)	MiSeq_109_Adapter dimer cleanup	☐	✓			
SW15-11 (1:28)	MiSeq_109_Adapter dimer cleanup	☐	✓			
SW15-02 non frag lib	MiSeq_109	☐	✓			
Ladder		☐	✓			

Chip Lot #

Reagent Kit Lot #

Chip Comments :

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

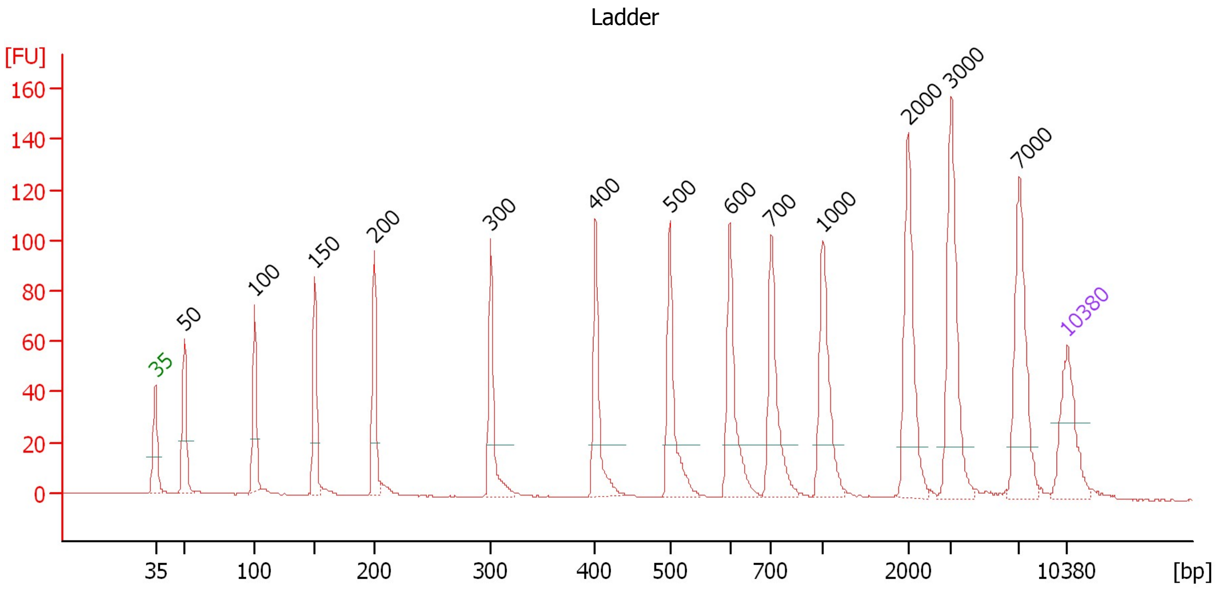
Ladder

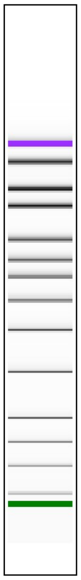
Ladder Peak	Size	Area
1	35	160
2	50	210
3	100	208
4	150	221
5	200	242
6	300	270
7	400	305
8	500	306
9	600	336
10	700	321
11	1000	366
12	2000	413
13	3000	411
14	7000	400
15	10380	214

Assay Class: High Sensitivity DNA Assay
Data Path: C:\...Settings\Bioanalyzer\2015-04-16\2015-04-16_001_SW15Libs.xad

Created: 4/16/2015 1:43:06 PM
Modified: 4/16/2015 2:18:21 PM

Electropherogram Summary





Overall Results for Ladder

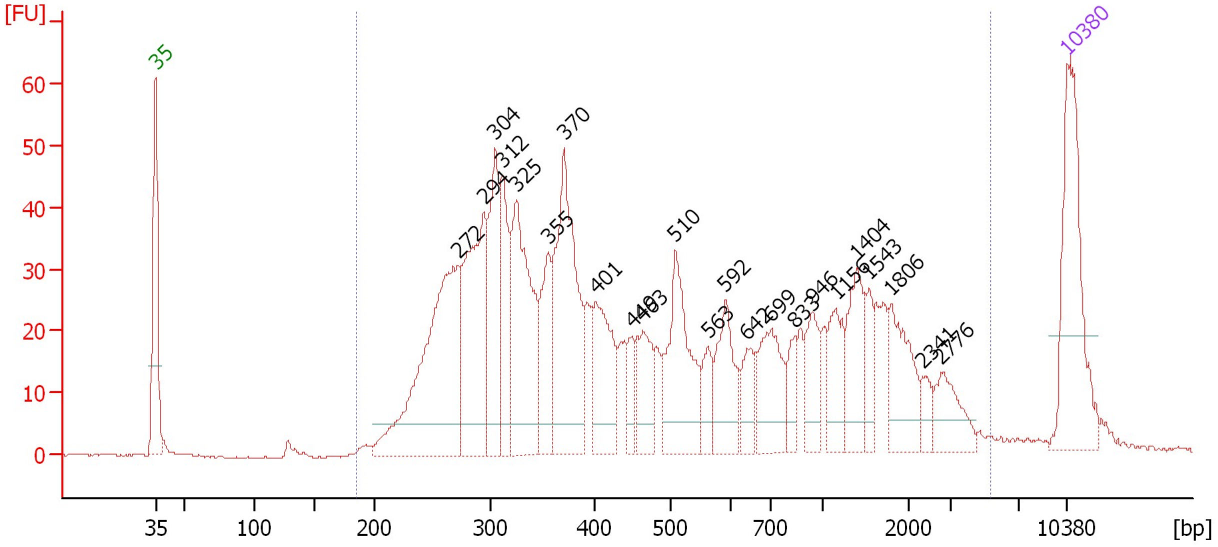
Noise: 0.2

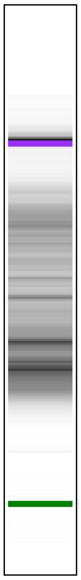
Peak table for Ladder

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	L	50	150.00	4,545.5	Ladder Peak	45.20
3	L	100	150.00	2,272.7	Ladder Peak	50.62
4	L	150	150.00	1,515.2	Ladder Peak	55.21
5	L	200	150.00	1,136.4	Ladder Peak	59.80
6	L	300	150.00	757.6	Ladder Peak	68.75
7	L	400	150.00	568.2	Ladder Peak	76.78
8	L	500	150.00	454.5	Ladder Peak	82.48
9	L	600	150.00	378.8	Ladder Peak	87.11
10	L	700	150.00	324.7	Ladder Peak	90.28
11	L	1,000	150.00	227.3	Ladder Peak	94.23
12	L	2,000	150.00	113.6	Ladder Peak	100.79
13	L	3,000	150.00	75.8	Ladder Peak	104.10
14	L	7,000	150.00	32.5	Ladder Peak	109.33
15	▶	10,380	75.00	10.9	Upper Marker	113.00

Electropherogram Summary Continued ...

SW15-10 (1:24) [MiSeq_109_Adapter dimer cleanup]





Overall Results for sample 3 : **SW15-10 (1:24)**

Number of peaks found:	23	Corr. Area 1:	1,295.5
Noise:	0.2		

Peak table for sample 3 : **SW15-10 (1:24)**

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		272	203.91	1,134.7		66.27
3		294	134.42	693.4		68.19
4		304	79.99	398.2		69.10
5		312	62.47	303.8		69.68
6		325	124.82	582.5		70.73
7		355	49.66	212.2		73.13
8		370	141.80	580.6		74.38
9		401	61.71	233.3		76.82
10		449	16.90	57.1		79.56
11		463	37.42	122.4		80.37
12		510	82.15	244.3		82.92
13		563	19.16	51.5		85.41
14		592	43.63	111.6		86.76
15		642	21.01	49.6		88.44
16		699	49.33	106.9		90.26
17		833	14.85	27.0		92.03
18		946	26.39	42.2		93.52
19		1,156	28.60	37.5		95.25
20		1,404	38.68	41.7		96.88
21		1,543	17.70	17.4		97.79
22		1,806	39.57	33.2		99.52
23		2,341	9.19	6.0		101.92
24		2,776	23.49	12.8		103.36
25	▶	10,380	75.00	10.9	Upper Marker	113.00

Assay Class: High Sensitivity DNA Assay
Data Path: C:\...Settings\Bioanalyzer\2015-04-16\2015-04-16_001_SW15Libs.xad

Created: 4/16/2015 1:43:06 PM
Modified: 4/16/2015 2:18:21 PM

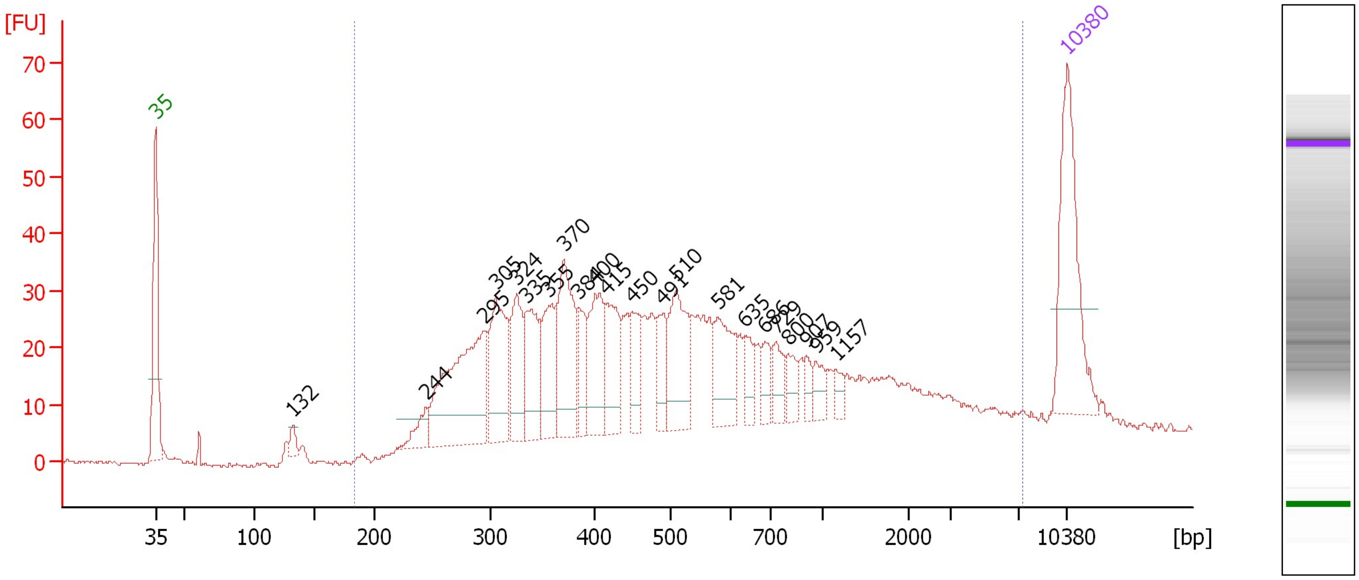
Electropherogram Summary Continued ...

... Region table for sample 3 : SW15-10 (1:24)

From [bp]	Average Size [bp]	To [bp]	Corr. Area	Molarity [pmol/l]	% of Total	Size distribution in CV [%]	Conc. [pg/µl]	Color
184	746	5,374	1,295.5	5,517.5	98	95.7	1,460.59	🟦

Electropherogram Summary Continued ...

SW15-11 (1:28) [MiSeq_109_Adapter dimer cleanup]



Overall Results for sample 4 : SW15-11 (1:28)

Number of peaks found:	22	Corr. Area 1:	1,019.1
Noise:	0.4		

Peak table for sample 4 : SW15-11 (1:28)

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		132	9.24	106.1		53.56
3		244	18.13	112.4		63.78
4		295	142.05	730.4		68.27
5		305	79.54	395.1		69.15
6		324	51.20	239.1		70.72
7		335	53.48	242.0		71.55
8		355	52.14	222.6		73.16
9		370	75.77	310.7		74.33
10		384	26.56	104.8		75.51
11		400	52.51	198.9		76.78
12		415	47.23	172.3		77.66
13		450	28.52	96.1		79.61
14		491	26.63	82.2		81.96
15		510	57.94	172.1		82.94
16		581	44.46	116.0		86.21
17		635	16.13	38.5		88.22
18		686	14.01	30.9		89.83
19		729	16.47	34.2		90.66
20		800	13.76	26.1		91.59
21		907	8.27	13.8		93.01
22		959	11.58	18.3		93.69
23		1,157	6.68	8.7		95.26
24	▶	10,380	75.00	10.9	Upper Marker	113.00

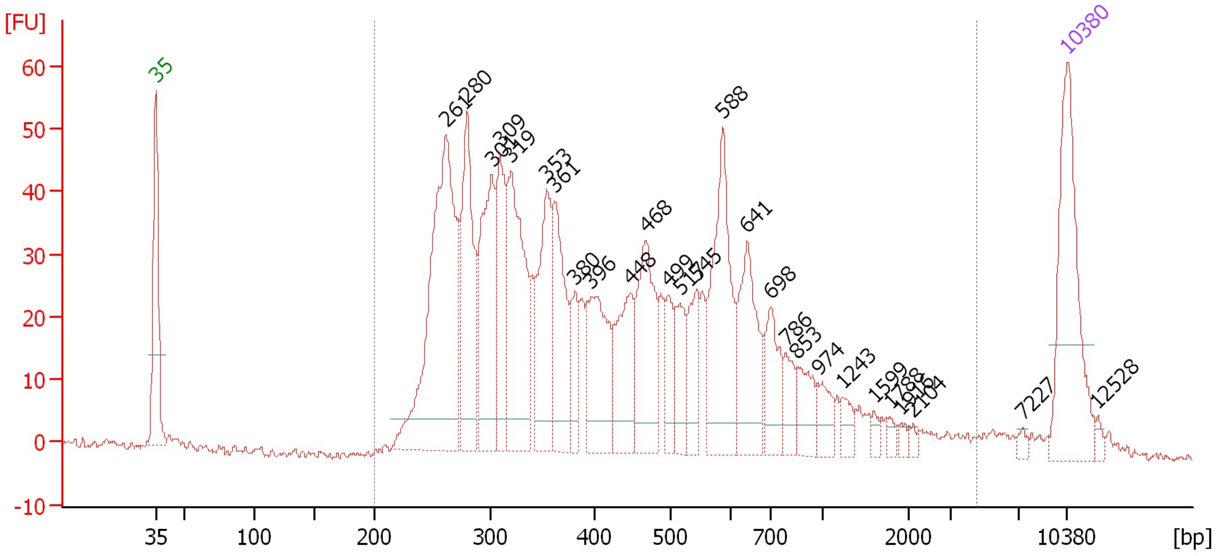
Electropherogram Summary Continued ...

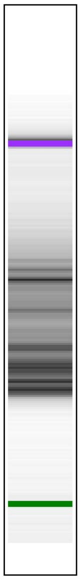
... Region table for sample 4 : SW15-11 (1:28)

From [bp]	Average Size [bp]	To [bp]	Corr. Area	Molarity [pmol/l]	% of Total	Size distribution in CV [%]	Conc. [pg/µl]	Color
184	822	7,291	1,019.1	4,479.5	96	100.0	1,281.90	🟦

Electropherogram Summary Continued ...

SW15-02 non frag lib [MiSeq_109]





Overall Results for sample 5 : SW15-02 non frag lib

Number of peaks found:	27	Corr. Area 1:	1,243.4
Noise:	0.7		

Peak table for sample 5 : SW15-02 non frag lib

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		261	240.61	1,394.9		65.29
3		280	106.03	574.5		66.93
4		301	102.31	515.3		68.82
5		309	73.23	359.2		69.46
6		319	119.95	569.1		70.30
7		353	75.68	324.5		73.04
8		361	69.99	293.9		73.63
9		380	24.85	99.1		75.17
10		396	72.18	276.2		76.46
11		448	54.46	184.4		79.49
12		468	72.86	236.1		80.63
13		499	25.17	76.4		82.42
14		517	26.51	77.7		83.26
15		545	31.35	87.2		84.55
16		588	95.27	245.6		86.54
17		641	62.47	147.5		88.43
18		698	35.08	76.1		90.21
19		786	17.25	33.3		91.40
20		853	22.02	39.1		92.30
21		974	14.73	22.9		93.89
22		1,243	9.01	11.0		95.82
23		1,599	4.65	4.4		98.16
24		1,788	4.01	3.4		99.40
25		1,916	3.88	3.1		100.24

Electropherogram Summary Continued ...

... Peak table for sample 5 : SW15-02 non frag lib

Peak	Size [bp]	Conc. [pg/µl]	Molarity [pmol/l]	Observations	Aligned Migration Time [s]
26	2,104	2.51	1.8		101.13
27	7,227	2.94	0.6		109.57
28 ▶	10,380	75.00	10.9	Upper Marker	113.00
29	12,528	0.00	0.0		115.33

Region table for sample 5 : SW15-02 non frag lib

From [bp]	Average Size [bp]	To [bp]	Corr. Area	Molarity [pmol/l]	% of Total	Size distribution in CV [%]	Conc. [pg/µl]	Color
200	525	4,454	1,243.4	5,816.0	98	81.2	1,440.74	🟦

Gel Image

Run Logbook

Description	Number	Source	Category	Sub Category	Time	Time Zone	User	Host
Run ended on port 1 (Number of wells acquired: 9)		Instrument	Run		4/16/2015 2:15:51 PM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Run started on port 1 (File: C:\Documents and Settings\Bioanalyzer\2015-04-16\2015-04-16_001.xad)		Instrument	Run		4/16/2015 1:43:11 PM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Product Number : G2938B		Instrument	Run		4/16/2015 1:43:11 PM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Name :		Instrument	Run		4/16/2015 1:43:11 PM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Vendor : Agilent Technologies		Instrument	Run		4/16/2015 1:43:11 PM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Serial# : DE13701086		Instrument	Run		4/16/2015 1:43:11 PM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Firmware : C.01.069		Instrument	Run		4/16/2015 1:43:11 PM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Cartridge : Electrode		Instrument	Run		4/16/2015 1:43:11 PM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1