

Assay Class: High Sensitivity DNA Assay
Data Path: C:\...16-05-12\2016-05-12_002_HiSeq_475_Libraries_EXP_ADD_TSS.xad

Created: 5/12/2016 4:32:29 PM
Modified: 5/13/2016 8:50:06 AM

Electrophoresis File Run Summary

Instrument Information:

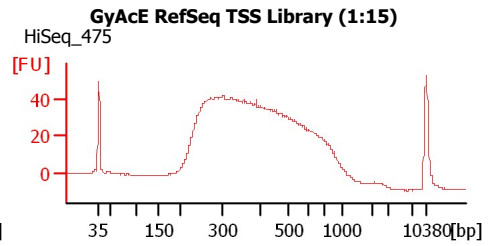
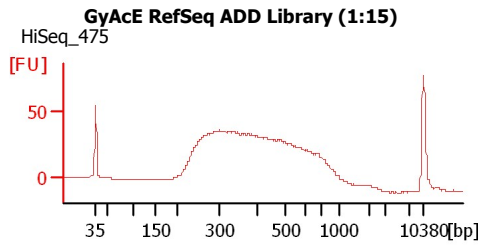
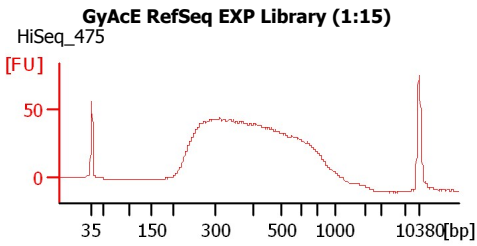
Instrument Name: DE13701086 Firmware: C.01.069
Serial#: DE13701086 Type: G2938B

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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Electrophoresis File Run Summary (Chip Summary)

Sample Name	Sample Comment	Rest. Digest	Status	Observation	Result Label	Result Color
GyAcE RefSeq EXP Library (1:15)	HiSeq_475	<input type="checkbox"/>				
GyAcE RefSeq ADD Library (1:15)	HiSeq_475	<input type="checkbox"/>				
GyAcE RefSeq TSS Library (1:15)	HiSeq_475	<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

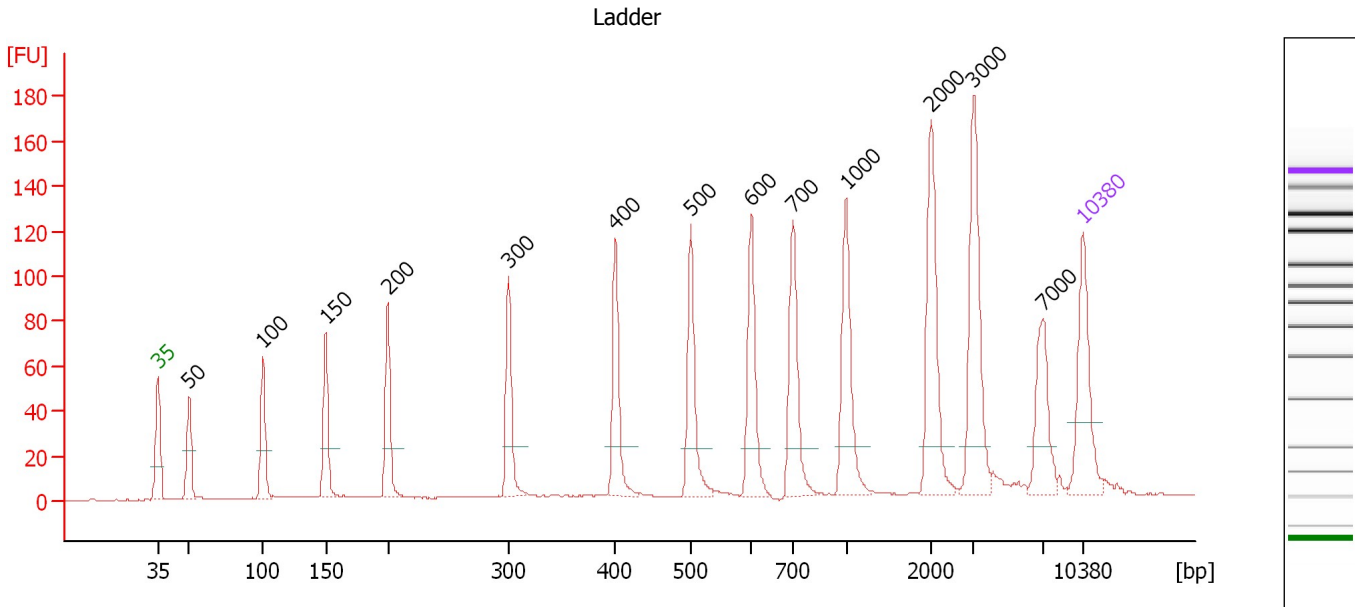
Ladder

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: 0.3

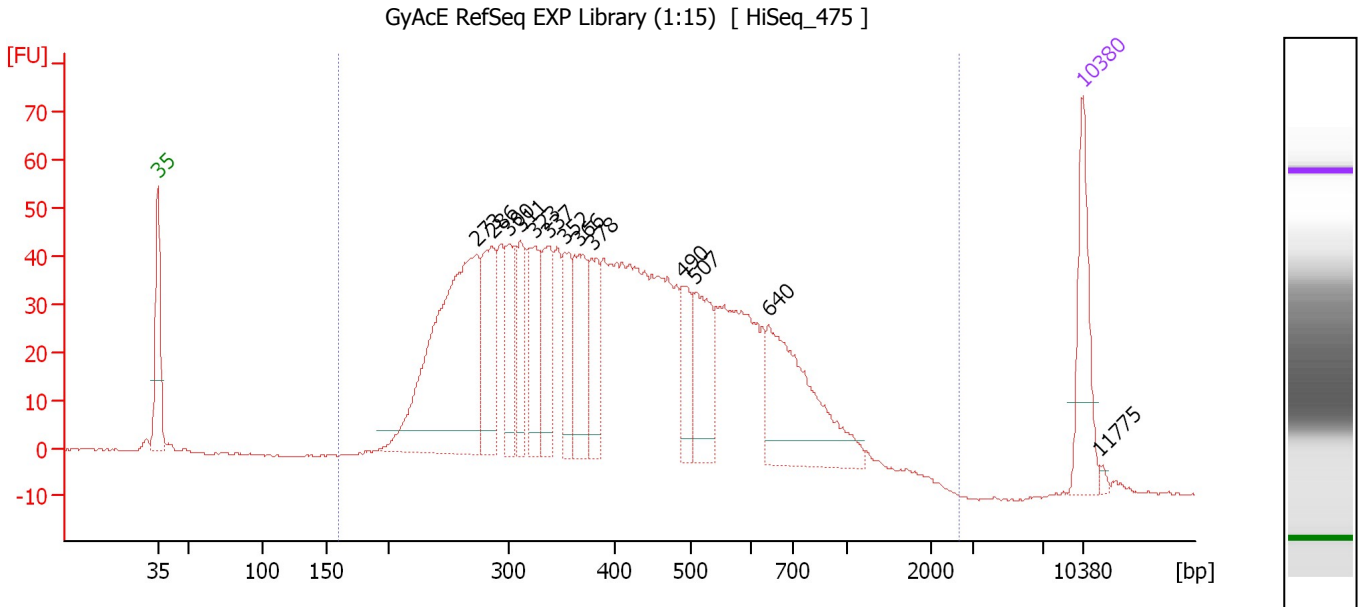
Peak table for Ladder

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	45.37
3	100	150.00	2,272.7	Ladder Peak	50.98
4	150	150.00	1,515.2	Ladder Peak	55.72
5	200	150.00	1,136.4	Ladder Peak	60.42
6	300	150.00	757.6	Ladder Peak	69.56
7	400	150.00	568.2	Ladder Peak	77.64
8	500	150.00	454.5	Ladder Peak	83.35
9	600	150.00	378.8	Ladder Peak	87.89
10	700	150.00	324.7	Ladder Peak	91.04
11	1,000	150.00	227.3	Ladder Peak	95.05
12	2,000	150.00	113.6	Ladder Peak	101.49
13	3,000	150.00	75.8	Ladder Peak	104.73
14	7,000	150.00	32.5	Ladder Peak	109.95
15	10,380	75.00	10.9	Upper Marker	113.00

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Electropherogram Summary Continued ...



Overall Results for sample 7 : GyAcE RefSeq EXP Library (1:15)

Number of peaks found: 13 Corr. Area 1: 1,557.2
 Noise: 0.2

Peak table for sample 7 : GyAcE RefSeq EXP Library (1:15)

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	273	423.95	2,351.8		67.10
3	286	126.79	671.0		68.31
4	300	77.04	389.0		69.56
5	311	69.96	340.7		70.46
6	323	82.44	386.2		71.45
7	337	84.77	381.1		72.55
8	352	66.10	284.5		73.76
9	366	95.13	393.6		74.91
10	378	73.75	295.7		75.85
11	490	54.13	167.4		82.77
12	507	99.83	298.4		83.66
13	640	184.92	437.6		89.16
14	10,380	75.00	10.9	Upper Marker	113.00
15	11,775	0.00	0.0		114.26

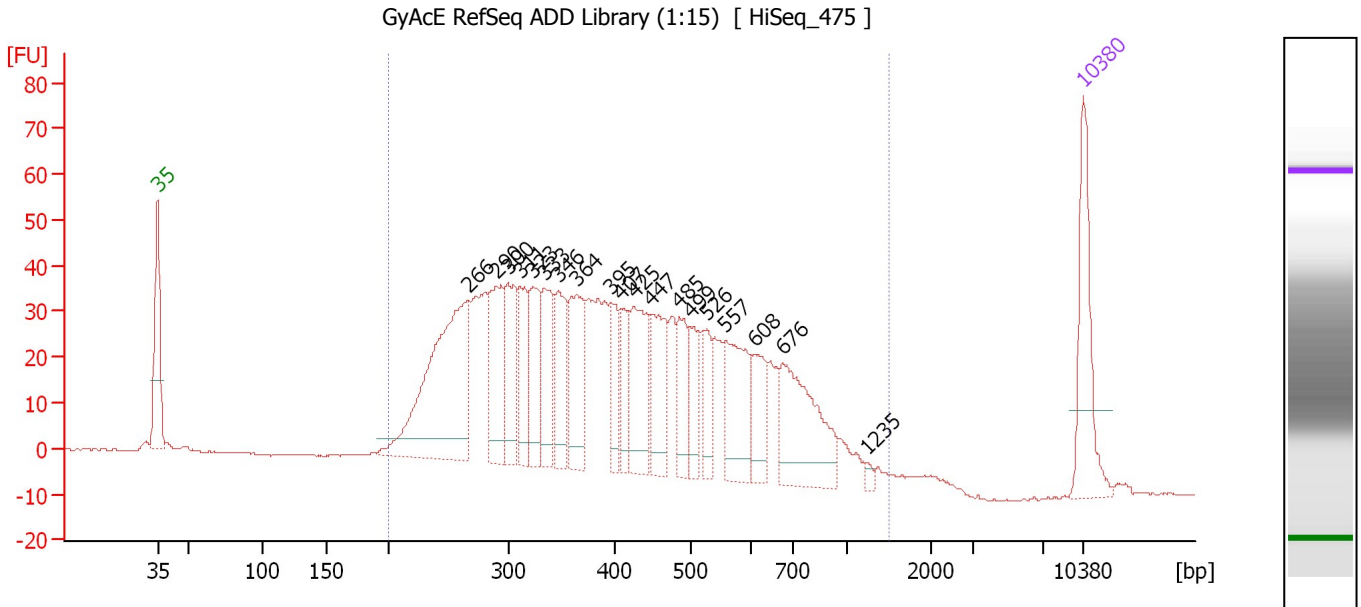
Region table for sample 7 : GyAcE RefSeq EXP Library (1:15)

From [bp]	To [bp]	Average Size [bp]	Corr. Area	Molarity [pmol/l]	Co Conc. Ior [pg/μl]	% of Total	Size distribution in CV [%]
160	2,633	440	1,557.2	10,294.0	2,448.41	99	44.8

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Electropherogram Summary Continued ...



Overall Results for sample 8 : GyAcE RefSeq ADD Library (1:15)

Number of peaks found: 19 Corr. Area 1: 1,300.2
 Noise: 0.2

Peak table for sample 8 : GyAcE RefSeq ADD Library (1:15)

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	266	283.07	1,610.7		66.48
3	290	97.07	507.8		68.61
4	300	83.02	419.9		69.52
5	311	66.77	325.6		70.42
6	323	69.41	326.0		71.38
7	333	71.49	325.1		72.24
8	346	76.00	332.4		73.30
9	364	87.90	366.3		74.69
10	395	48.50	185.9		77.25
11	407	43.39	161.4		78.05
12	425	92.09	328.3		79.07
13	447	75.66	256.7		80.29
14	485	51.08	159.6		82.48
15	499	42.84	130.1		83.28
16	526	37.64	108.5		84.51
17	557	87.05	236.7		85.95
18	608	48.10	119.9		88.14
19	676	123.99	278.1		90.27
20	1,235	4.54	5.6		96.57
21	10,380	75.00	10.9	Upper Marker	113.00

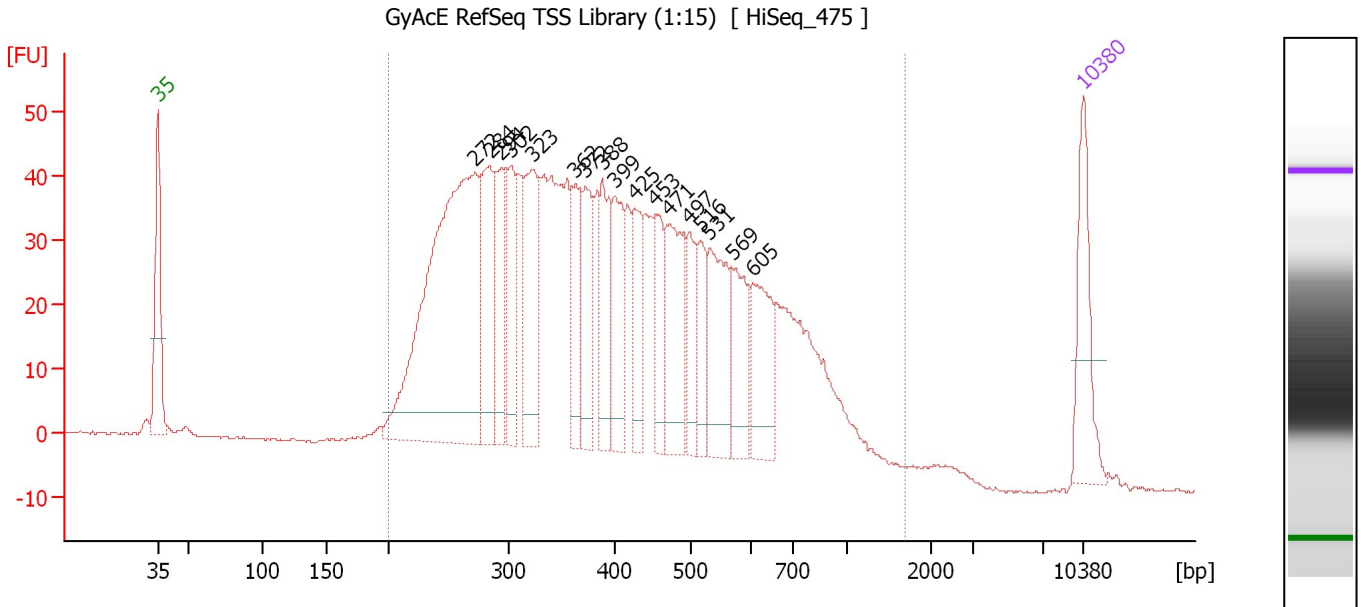
Region table for sample 8 : GyAcE RefSeq ADD Library (1:15)

From [bp]	To [bp]	Average Size [bp]	Corr. Area	Molarity [pmol/l]	Co Conc. [pg/μl]	% of Total	Size distribution in CV [%]
200	1,512	433	1,300.2	8,020.9	1,911.17	96	40.3

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Electropherogram Summary Continued ...



Overall Results for sample 9 : GyAcE RefSeq TSS Library (1:15)

Number of peaks found: 17 Corr. Area 1: 1,482.5
 Noise: 0.1

Peak table for sample 9 : GyAcE RefSeq TSS Library (1:15)

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	609.03	3,392.7		67.00
3	284	145.84	777.1		68.13
4	294	100.30	517.3		68.99
5	302	98.86	496.6		69.69
6	323	152.53	715.7		71.41
7	362	75.80	317.7		74.53
8	372	89.91	366.7		75.34
9	388	96.89	378.8		76.63
10	399	96.94	368.3		77.54
11	425	67.76	241.7		79.05
12	453	69.10	231.1		80.66
13	471	122.15	393.0		81.69
14	497	61.87	188.5		83.19
15	516	54.67	160.7		84.05
16	531	118.20	337.3		84.75
17	569	75.15	200.2		86.47
18	605	94.04	235.7		88.03
19	10,380	75.00	10.9	Upper Marker	113.00

Region table for sample 9 : GyAcE RefSeq TSS Library (1:15)

From [bp]	To [bp]	Average Size [bp]	Corr. Area	Molarity [pmol/l]	Co Conc. [pg/μl]	% of Total	Size distribution in CV [%]
200	1,704	431	1,482.5	12,950.5	3,041.96	97	42.4

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Gel Image

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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		5/12/2016 5:12:55 PM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Run started on port 1 (File: C:\Program Files\Agilent\2100 bioanalyzer\2100 expert\data\2016-05-12\2016-05-12_002.xad)		Instrument	Run		5/12/2016 4:32:34 PM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Product Number : G2938B		Instrument	Run		5/12/2016 4:32:34 PM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Name :		Instrument	Run		5/12/2016 4:32:34 PM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Vendor : Agilent Technologies		Instrument	Run		5/12/2016 4:32:34 PM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Serial# : DE13701086		Instrument	Run		5/12/2016 4:32:34 PM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Firmware : C.01.069		Instrument	Run		5/12/2016 4:32:34 PM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Cartridge : Electrode		Instrument	Run		5/12/2016 4:32:34 PM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1