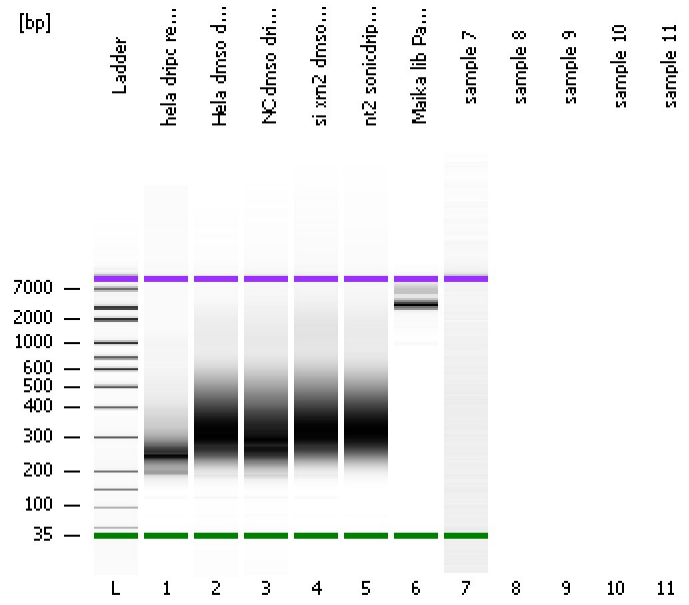
Assay Class: High Sensitivity DNA Assay
Data Path: C:\... bioanalyzer\2100 expert\data\2016-06-24\2016-06-24_001.xad

Created: 6/24/2016 10:01:26 AM
Modified: 6/24/2016 10:31:18 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

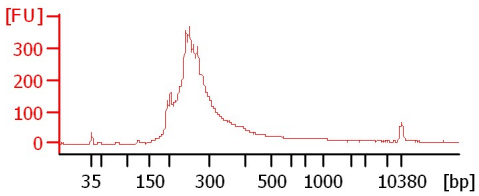
Chip Information:

Chip Lot #:

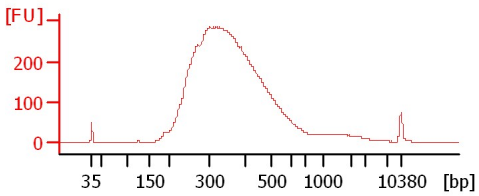
Reagent Kit Lot #:

Chip Comments:

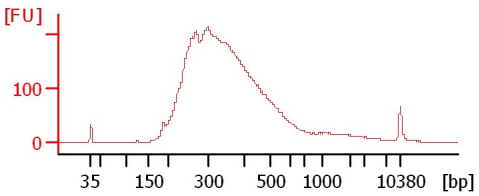
hela dripc replicate I1



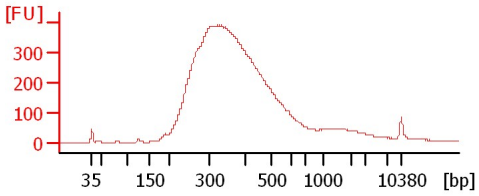
Hela dmso dripc patricia I3



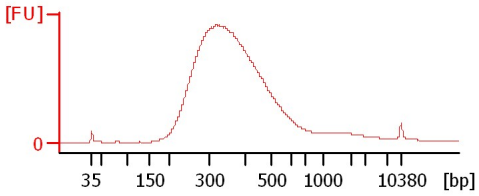
NC dmso dripc patricia I8



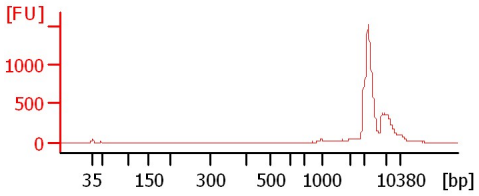
si xrn2 dmso dripc patricia I9



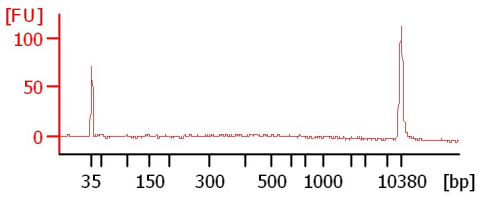
nt2 sonicdrip udg treated I27



Maika lib Pacbio



sample 7



Assay Class: High Sensitivity DNA Assay
Data Path: C:\... bioanalyzer\2100 expert\data\2016-06-24\2016-06-24_001.xad

Created: 6/24/2016 10:01:26 AM
Modified: 6/24/2016 10:31:18 AM

Electrophoresis File Run Summary (Chip Summary)

Sample Name	Sample Comment	Rest. Digest	Status	Observation	Result Label	Result Color
hela dripc replicate I1		☐	✔			
Hela dmso dripc patricia I3		☐	✔			
NC dmso dripc patricia I8		☐	✔			
si xrn2 dmso dripc patricia I9		☐	✔			
nt2 sonicdrip udg treated I27		☐	✔			
Maika lib Pacbio		☐	✔			
sample 7		☐	✔			
sample 8		☐				
sample 9		☐				
sample 10		☐				
sample 11		☐				
Ladder		☐	✔			

Chip Lot # **Reagent Kit Lot #**

Chip Comments :

Assay Class: High Sensitivity DNA Assay
Data Path: C:\... bioanalyzer\2100 expert\data\2016-06-24\2016-06-24_001.xad

Created: 6/24/2016 10:01:26 AM
Modified: 6/24/2016 10:31:18 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

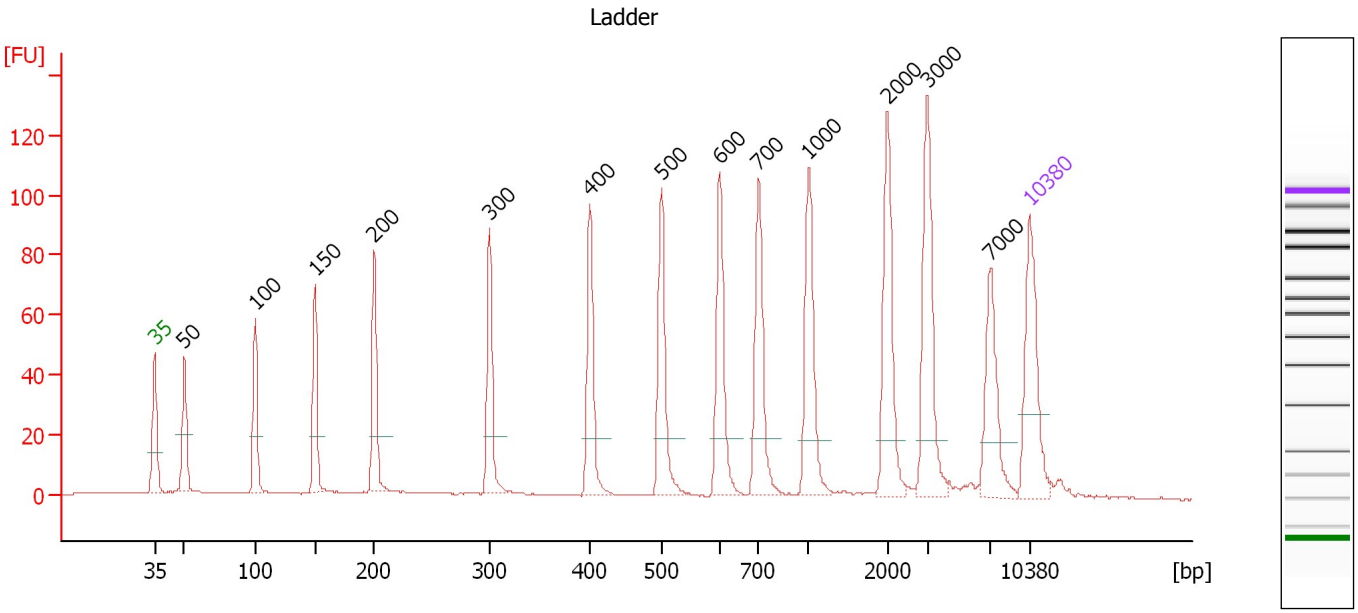
Ladder

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:\... bioanalyzer\2100 expert\data\2016-06-24\2016-06-24_001.xad

Created: 6/24/2016 10:01:26 AM
Modified: 6/24/2016 10:31:18 AM

Electropherogram Summary



Overall Results for Ladder

Noise: 0.2

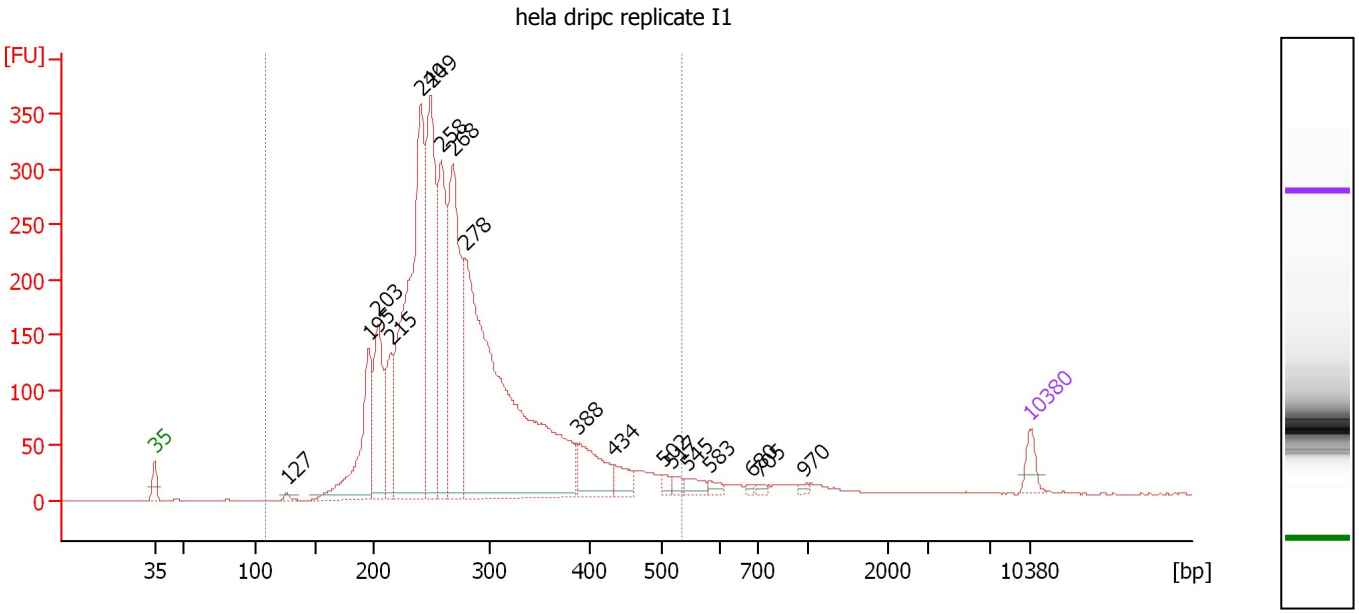
Peak table for Ladder

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	45.38
3		100	150.00	2,272.7	Ladder Peak	51.06
4		150	150.00	1,515.2	Ladder Peak	55.82
5		200	150.00	1,136.4	Ladder Peak	60.59
6		300	150.00	757.6	Ladder Peak	69.81
7		400	150.00	568.2	Ladder Peak	77.83
8		500	150.00	454.5	Ladder Peak	83.56
9		600	150.00	378.8	Ladder Peak	88.18
10		700	150.00	324.7	Ladder Peak	91.33
11		1,000	150.00	227.3	Ladder Peak	95.32
12		2,000	150.00	113.6	Ladder Peak	101.63
13		3,000	150.00	75.8	Ladder Peak	104.84
14		7,000	150.00	32.5	Ladder Peak	109.89
15		10,380	75.00	10.9	Upper Marker	113.00

Assay Class: High Sensitivity DNA Assay
Data Path: C:\... bioanalyzer\2100 expert\data\2016-06-24\2016-06-24_001.xad

Created: 6/24/2016 10:01:26 AM
Modified: 6/24/2016 10:31:18 AM

Electropherogram Summary Continued ...



Overall Results for sample 1 : hela dripc replicate I1

Number of peaks found:	18	Corr. Area 1:	4,459.9
Noise:	0.2		

Peak table for sample 1 : hela dripc replicate I1

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	127	24.09	288.1		53.60
3	195	742.97	5,763.0		60.14
4	203	626.33	4,669.3		60.88
5	215	368.58	2,603.4		61.92
6	240	2,460.00	15,512.5		64.30
7	249	1,284.65	7,821.3		65.09
8	258	923.98	5,426.5		65.94
9	268	1,271.86	7,185.6		66.88
10	278	3,381.74	18,405.7		67.82
11	388	322.49	1,260.6		76.84
12	434	116.20	406.0		79.76
13	502	38.51	116.1		83.67
14	517	45.08	132.0		84.37
15	545	62.44	173.5		85.65
16	583	32.64	84.8		87.39
17	680	12.67	28.2		90.71
18	705	19.11	41.1		91.40
19	970	14.85	23.2		94.92
20	10,380	75.00	10.9	Upper Marker	113.00

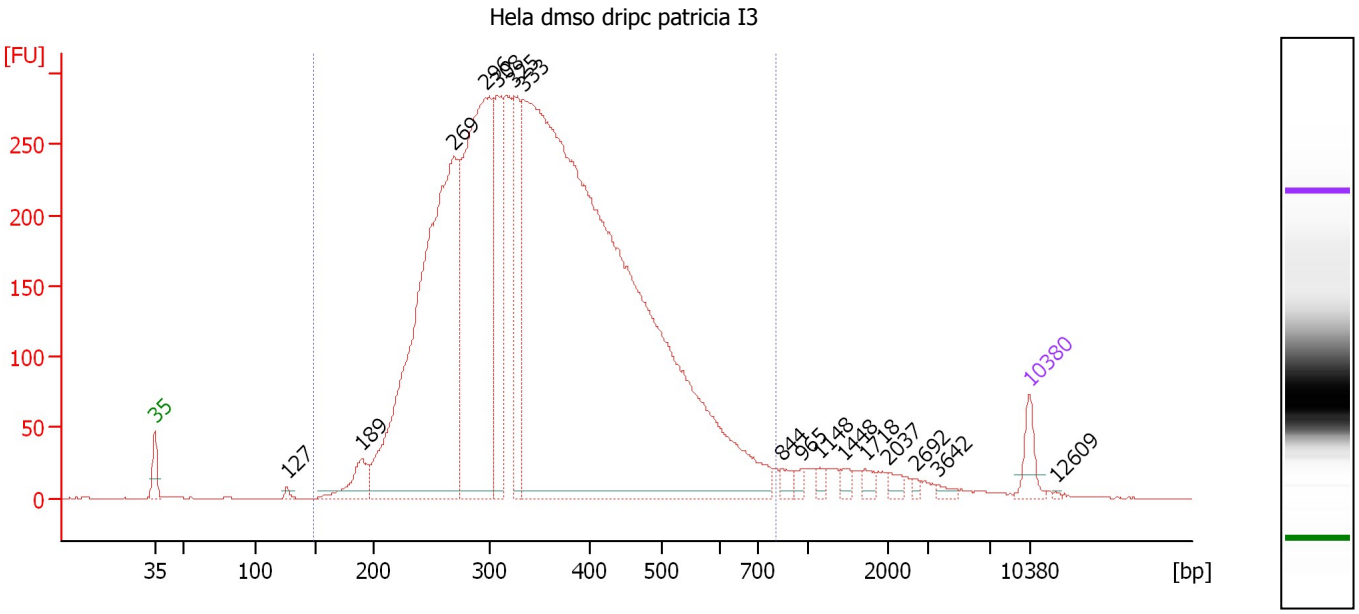
Region table for sample 1 : hela dripc replicate I1

From [bp]	To [bp]	Average Size [bp]	Corr. Area	Molarity [pmol/l]	Co Conc. lor [pg/µl]	% of Total	Size distribution in CV [%]
108	535	279	4,459.9	66,729.9	11,541.29	95	23.8

Assay Class: High Sensitivity DNA Assay
Data Path: C:\... bioanalyzer\2100 expert\data\2016-06-24\2016-06-24_001.xad

Created: 6/24/2016 10:01:26 AM
Modified: 6/24/2016 10:31:18 AM

Electropherogram Summary Continued ...



Overall Results for sample 2 : Hela dmso dripc patricia I3

Number of peaks found:	16	Corr. Area 1:	7,188.6
Noise:	0.3		

Peak table for sample 2 : Hela dmso dripc patricia I3

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	127	15.38	184.0		53.60
3	189	169.45	1,357.5		59.55
4	269	2,869.78	16,166.4		66.95
5	296	2,013.18	10,303.3		69.45
6	308	626.88	3,084.5		70.45
7	325	487.65	2,275.1		71.80
8	333	7,448.89	33,904.8		72.45
9	844	37.14	66.6		93.25
10	965	22.06	34.6		94.85
11	1,148	25.09	33.1		96.25
12	1,448	27.41	28.7		98.15
13	1,718	27.52	24.3		99.85
14	2,037	27.50	20.5		101.75
15	2,692	11.67	6.6		103.85
16	3,642	17.02	7.1		105.65
17	10,380	75.00	10.9	Upper Marker	113.00
18	12,609	0.00	0.0		115.05

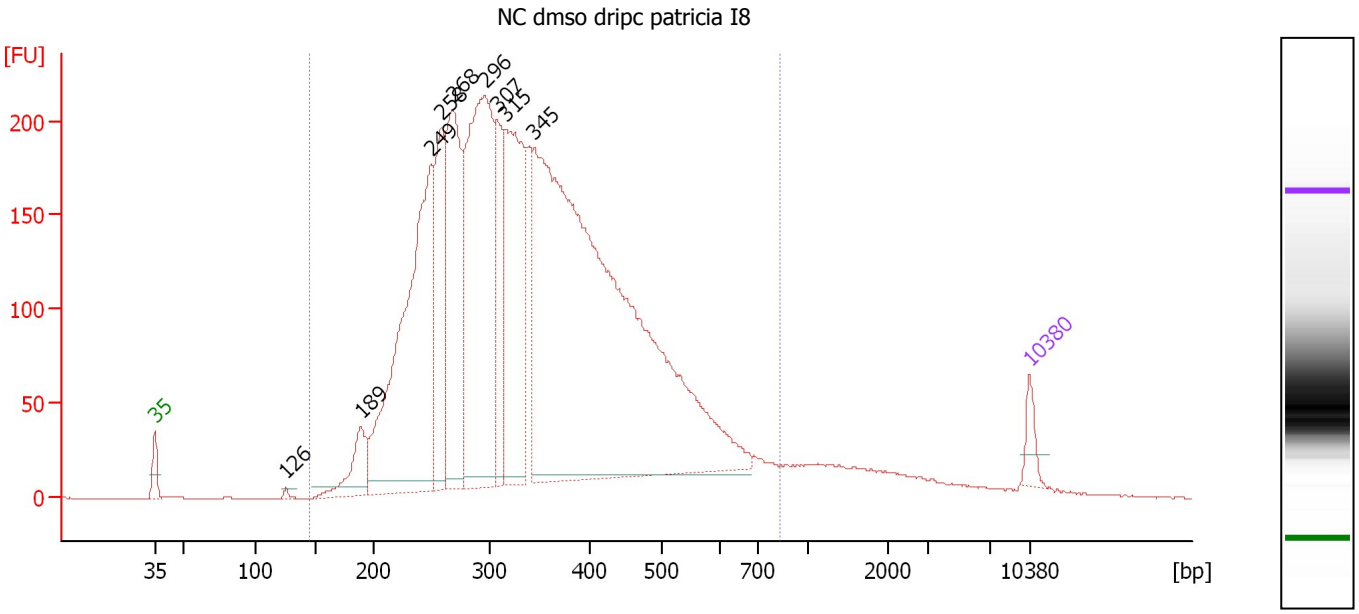
Region table for sample 2 : Hela dmso dripc patricia I3

From [bp]	To [bp]	Average Size [bp]	Corr. Area	Molarity [pmol/l]	Color [pg/µl]	% of Total	Size distribution in CV [%]
149	807	362	7,188.6	62,475.3	13,448.35	96	28.3

Assay Class: High Sensitivity DNA Assay
Data Path: C:\... bioanalyzer\2100 expert\data\2016-06-24\2016-06-24_001.xad

Created: 6/24/2016 10:01:26 AM
Modified: 6/24/2016 10:31:18 AM

Electropherogram Summary Continued ...



Overall Results for sample 3 : NC dmso dripc patricia I8

Number of peaks found:	9	Corr. Area 1:	5,349.9
Noise:	0.2		

Peak table for sample 3 : NC dmso dripc patricia I8

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	126	19.66	237.1		53.51
3	189	280.44	2,253.2		59.50
4	249	2,214.21	13,459.0		65.13
5	258	702.33	4,123.5		65.94
6	268	1,170.20	6,616.7		66.86
7	296	2,002.32	10,248.9		69.45
8	307	493.20	2,430.6		70.41
9	315	1,290.15	6,204.8		71.02
10	345	5,335.26	23,444.2		73.41
11	10,380	75.00	10.9	Upper Marker	113.00

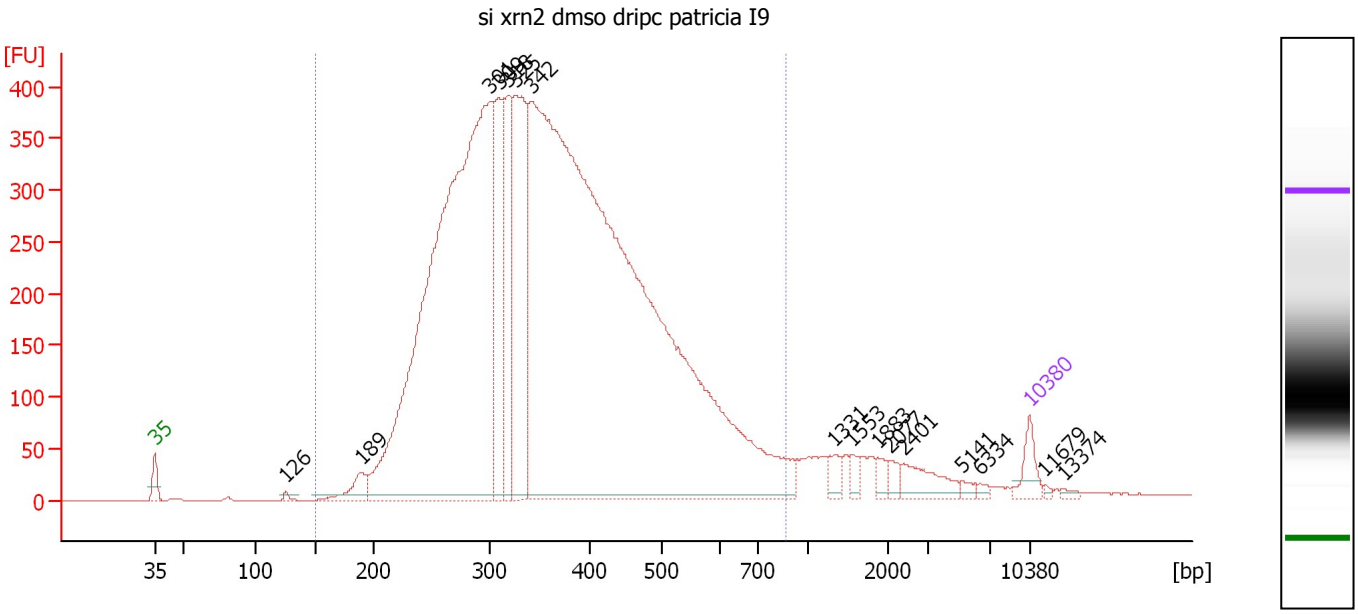
Region table for sample 3 : NC dmso dripc patricia I8

From [bp]	To [bp]	Average Size [bp]	Corr. Area	Molarity [pmol/l]	Color [pg/µl]	% of Total	Size distribution in CV [%]
145	832	353	5,349.9	69,081.9	14,306.59	95	30.6

Assay Class: High Sensitivity DNA Assay
Data Path: C:\... bioanalyzer\2100 expert\data\2016-06-24\2016-06-24_001.xad

Created: 6/24/2016 10:01:26 AM
Modified: 6/24/2016 10:31:18 AM

Electropherogram Summary Continued ...



Overall Results for sample 4 : si xrn2 dmso dripc patricia I9

Number of peaks found:	16	Corr. Area 1:	9,727.1
Noise:	0.3		

Peak table for sample 4 : si xrn2 dmso dripc patricia I9

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	126	18.62	223.7		53.55
3	189	129.76	1,040.9		59.53
4	301	4,893.82	24,662.5		69.87
5	309	684.50	3,355.5		70.54
6	318	629.06	2,995.7		71.27
7	325	1,012.66	4,716.8		71.84
8	342	8,402.83	37,281.2		73.14
9	1,331	53.71	61.1		97.41
10	1,553	41.42	40.4		98.81
11	1,883	40.15	32.3		100.89
12	2,077	34.47	25.2		101.88
13	2,401	119.68	75.5		102.92
14	5,141	19.60	5.8		107.54
15	6,334	14.28	3.4		109.05
16	10,380	75.00	10.9	Upper Marker	113.00
17	11,679	0.00	0.0		114.20
18	13,374	0.00	0.0		115.75

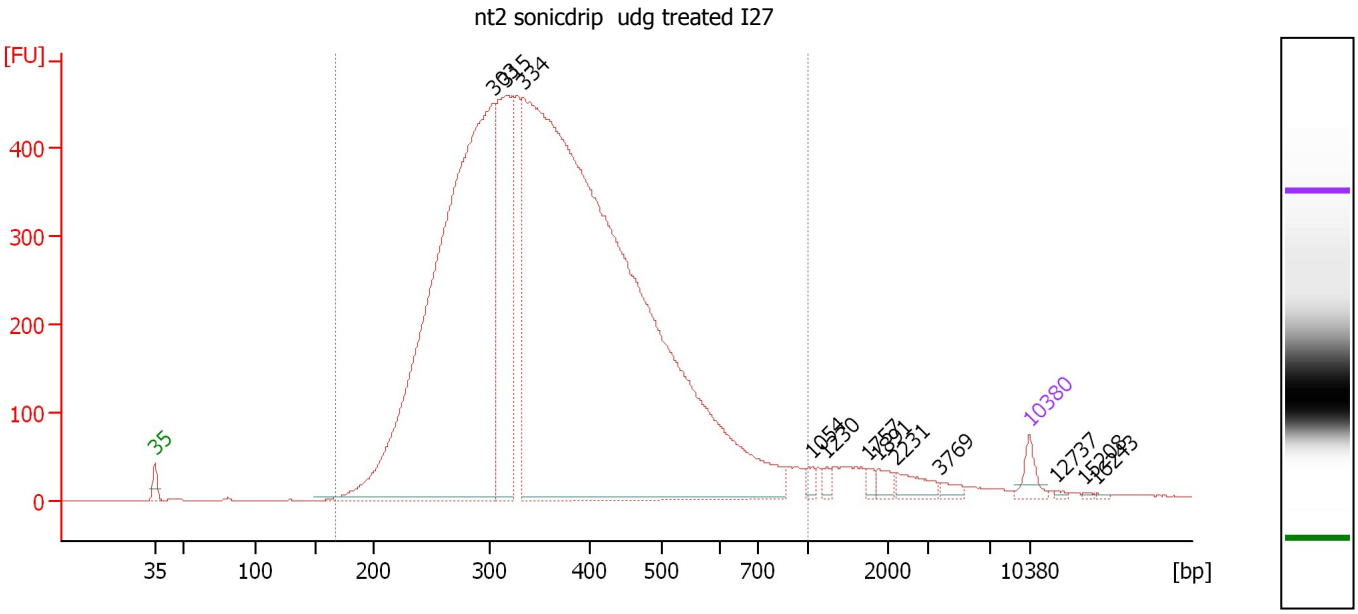
Region table for sample 4 : si xrn2 dmso dripc patricia I9

From [bp]	To [bp]	Average Size [bp]	Corr. Area	Molarity [pmol/l]	Color [pg/µl]	% of Total	Size distribution in CV [%]
151	860	372	9,727.1	68,336.2	15,064.55	94	29.6

Assay Class: High Sensitivity DNA Assay
Data Path: C:\... bioanalyzer\2100 expert\data\2016-06-24\2016-06-24_001.xad

Created: 6/24/2016 10:01:26 AM
Modified: 6/24/2016 10:31:18 AM

Electropherogram Summary Continued ...



Overall Results for sample 5 : nt2 sonicdrip udg treated I27

Number of peaks found:	12	Corr. Area 1:	11,070.5
Noise:	0.3		

Peak table for sample 5 : nt2 sonicdrip udg treated I27

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	303	6,333.52	31,652.1		70.07
3	315	1,456.30	7,003.6		71.02
4	334	10,964.80	49,811.9		72.50
5	1,054	38.42	55.2		95.66
6	1,230	32.07	39.5		96.77
7	1,757	32.14	27.7		100.10
8	1,891	56.60	45.3		100.95
9	2,231	92.54	62.9		102.37
10	3,769	36.65	14.7		105.81
11	10,380	75.00	10.9	Upper Marker	113.00
12	12,737	0.00	0.0		115.17
13	15,208	0.00	0.0		117.44
14	16,243	0.00	0.0		118.39

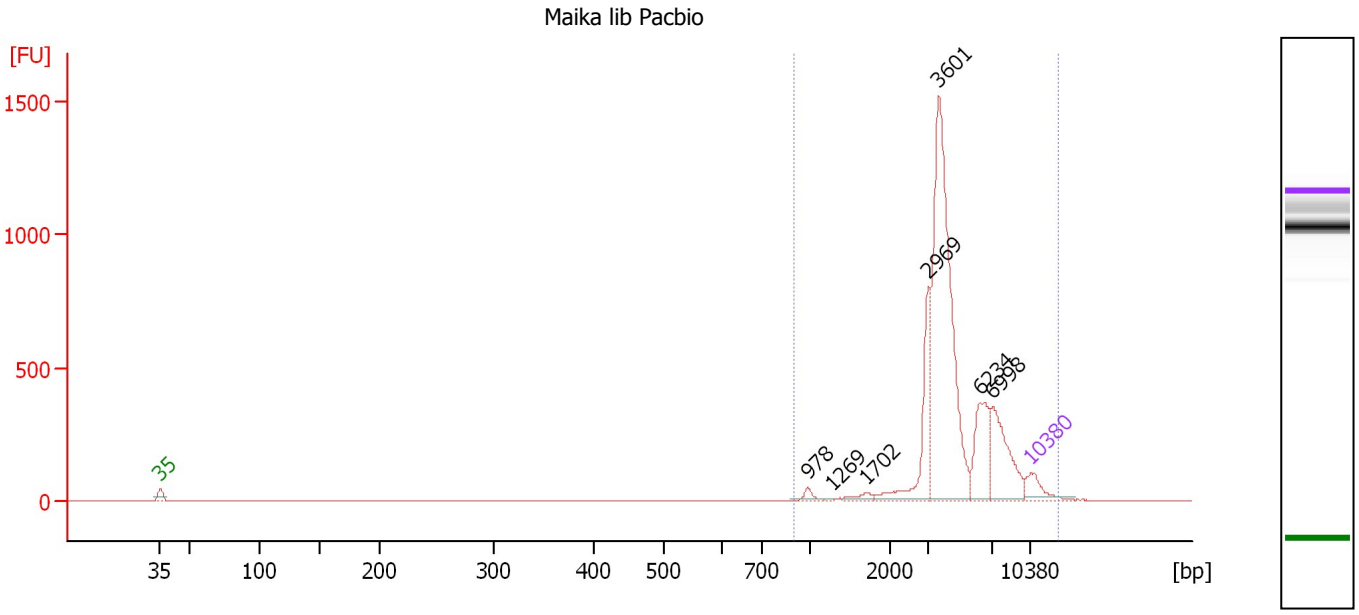
Region table for sample 5 : nt2 sonicdrip udg treated I27

From [bp]	To [bp]	Average Size [bp]	Corr. Area	Molarity [pmol/l]	Color Conc. [pg/µl]	% of Total	Size distribution in CV [%]
167	1,000	374	11,070.5	83,828.4	18,547.25	96	31.1

Assay Class: High Sensitivity DNA Assay
Data Path: C:\... bioanalyzer\2100 expert\data\2016-06-24\2016-06-24_001.xad

Created: 6/24/2016 10:01:26 AM
Modified: 6/24/2016 10:31:18 AM

Electropherogram Summary Continued ...



Overall Results for sample 6 : Maika lib Pacbio

Number of peaks found:	7	Corr. Area 1:	3,935.6
Noise:	0.2		

Peak table for sample 6 : Maika lib Pacbio

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	978	25.89	40.1		95.03
3	1,269	4.03	4.8		97.02
4	1,702	26.88	23.9		99.75
5	2,969	287.37	146.7		104.74
6	3,601	1,194.97	502.8		105.60
7	6,234	239.96	58.3		108.92
8	6,998	288.42	62.4		109.89
9	10,380	75.00	10.9	Upper Marker	113.00

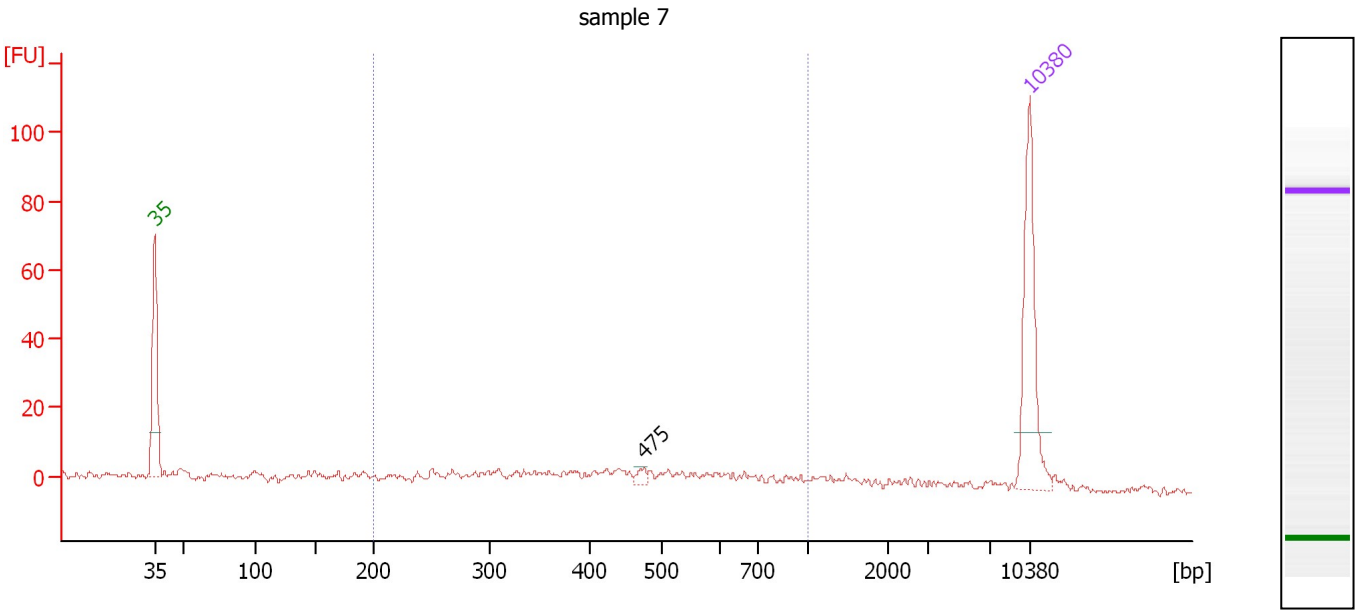
Region table for sample 6 : Maika lib Pacbio

From [bp]	To [bp]	Average Size [bp]	Corr. Area	Molarity [pmol/l]	Color [pg/µl]	% of Total	Size distribution in CV [%]
902	12,836	4,782	3,935.6	783.0	2,077.88	100	44.1

Assay Class: High Sensitivity DNA Assay
Data Path: C:\... bioanalyzer\2100 expert\data\2016-06-24\2016-06-24_001.xad

Created: 6/24/2016 10:01:26 AM
Modified: 6/24/2016 10:31:18 AM

Electropherogram Summary Continued ...



Overall Results for sample 7 : sample 7

Number of peaks found:	1	Corr. Area 1:	131.3
Noise:	0.9		

Peak table for sample 7 : sample 7

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	475	5.25	16.7		82.13
3	10,380	75.00	10.9	Upper Marker	113.00

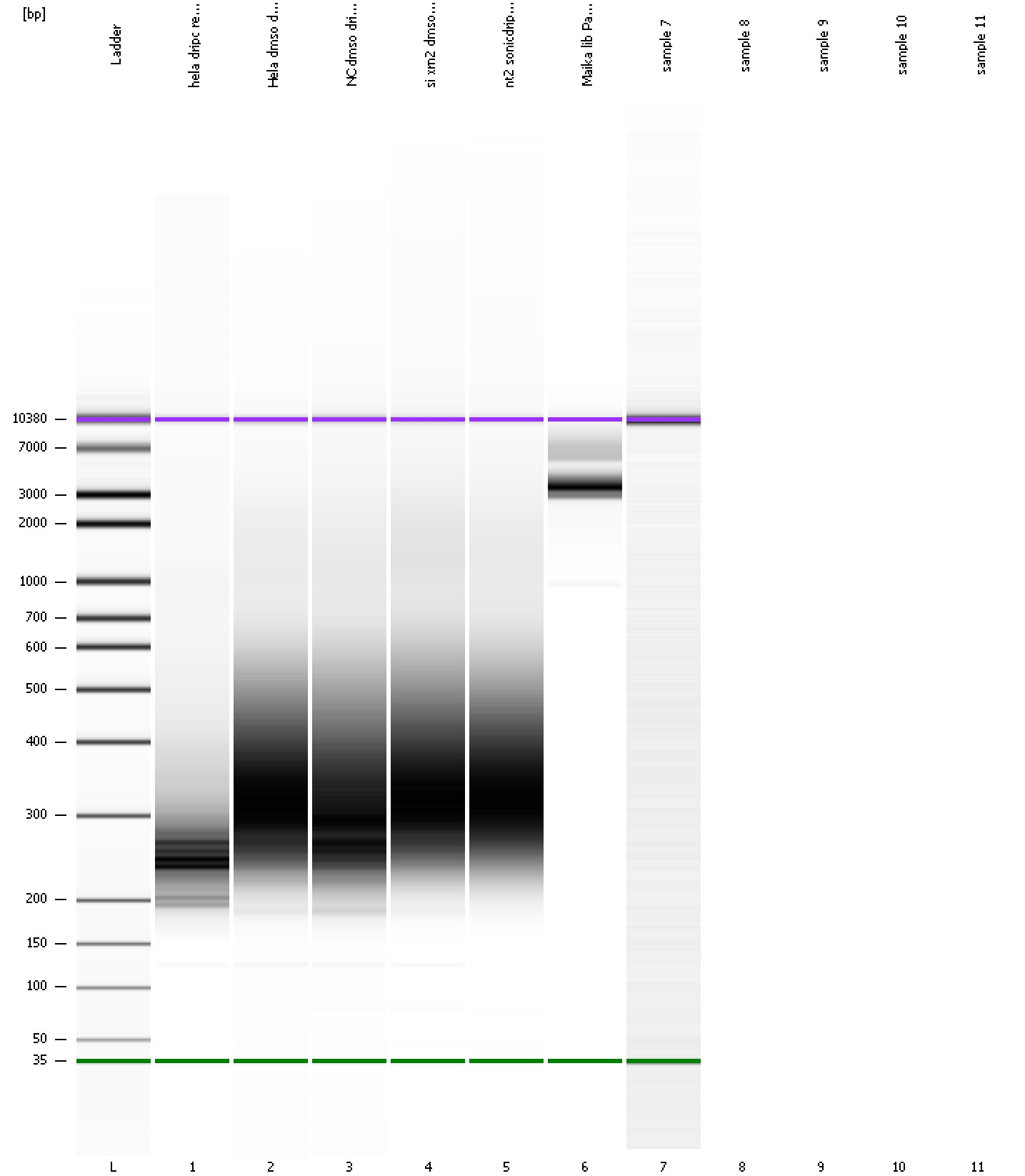
Region table for sample 7 : sample 7

From [bp]	To [bp]	Average Size [bp]	Corr. Area	Molarity [pmol/l]	Color [pg/µl]	% of Total	Size distribution in CV [%]
200	1,000	471	131.3	570.3	145.06	54	38.3

Assay Class: High Sensitivity DNA Assay
Data Path: C:\... bioanalyzer\2100 expert\data\2016-06-24\2016-06-24_001.xad

Created: 6/24/2016 10:01:26 AM
Modified: 6/24/2016 10:31:18 AM

Gel Image



Assay Class: High Sensitivity DNA Assay
Data Path: C:\... bioanalyzer\2100 expert\data\2016-06-24\2016-06-24_001.xad

Created: 6/24/2016 10:01:26 AM
Modified: 6/24/2016 10:31:18 AM

Invalid Samples

Sample 8 has not been run, no results available.

Sample 9 has not been run, no results available.

Sample 10 has not been run, no results available.

Sample 11 has not been run, no results available.

Assay Class: High Sensitivity DNA Assay
Data Path: C:\... bioanalyzer\2100 expert\data\2016-06-24\2016-06-24_001.xad

Created: 6/24/2016 10:01:26 AM
Modified: 6/24/2016 10:31:18 AM

Run Logbook

Description	Number	Source	Category	Sub Category	Time	Time Zone	User	Host
Run ended on port 1 (Number of wells acquired: 8)		Instrument	Run		6/24/2016 10:31:17 AM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Run started on port 1 (File: C:\Program Files\Agilent\2100 bioanalyzer\2100 expert\data\2016-06-24\2016-06-24_001.xad)		Instrument	Run		6/24/2016 10:01:31 AM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Product Number : G2938B		Instrument	Run		6/24/2016 10:01:31 AM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Name :		Instrument	Run		6/24/2016 10:01:31 AM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Vendor : Agilent Technologies		Instrument	Run		6/24/2016 10:01:31 AM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Serial# : DE13701086		Instrument	Run		6/24/2016 10:01:31 AM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Firmware : C.01.069		Instrument	Run		6/24/2016 10:01:31 AM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Cartridge : Electrode		Instrument	Run		6/24/2016 10:01:31 AM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1