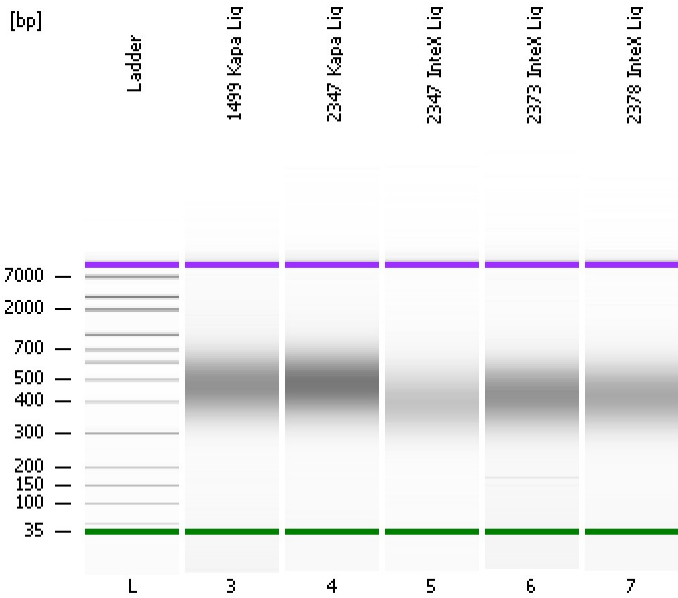


Assay Class: High Sensitivity DNA Assay  
Data Path: C:\...gs\Bioanalyzer\2013-05-21\2013-05-21\_003\_Kapa\_InteX\_Lig.xad

Created: 5/21/2013 2:50:27 PM  
Modified: 5/21/2013 3:39:06 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

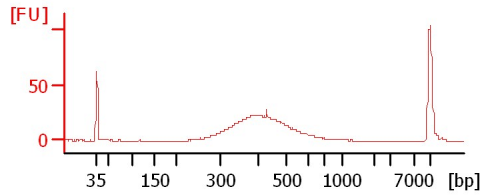
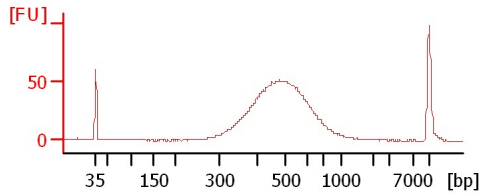
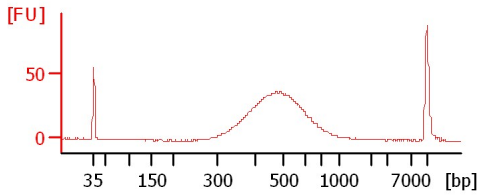
Chip Information:

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

**1499 Kapa Lig**

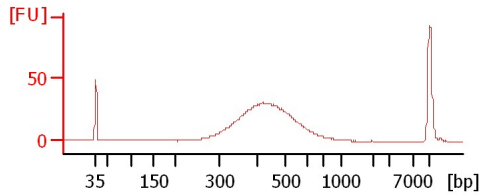
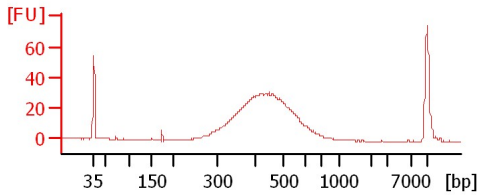
**2347 Kapa Lig**

**2347 InteX Lig**



**2373 InteX Lig**

**2378 InteX Lig**



Assay Class: High Sensitivity DNA Assay  
 Data Path: C:\...gs\Bioanalyzer\2013-05-21\2013-05-21\_003\_Kapa\_InteX\_Lig.xad

Created: 5/21/2013 2:50:27 PM  
 Modified: 5/21/2013 3:39:06 PM

**Electrophoresis File Run Summary (Chip Summary)**

Sample Name	Sample Comment	Rest. Digest	Status	Observation	Result Label	Result Color
1499 Kapa Lig		<input type="checkbox"/>	✓			
2347 Kapa Lig		<input type="checkbox"/>	✓			
2347 InteX Lig		<input type="checkbox"/>	✓			
2373 InteX Lig		<input type="checkbox"/>	✓			
2378 InteX Lig		<input type="checkbox"/>	✓			
Ladder		<input type="checkbox"/>	✓			

**Chip Lot #**

**Reagent Kit Lot #**

**Chip Comments :**

Assay Class: High Sensitivity DNA Assay  
Data Path: C:\...gs\Bioanalyzer\2013-05-21\2013-05-21\_003\_Kapa\_InteX\_Lig.xad

Created: 5/21/2013 2:50:27 PM  
Modified: 5/21/2013 3:39:06 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/ $\mu$ l] : 1950  
Uses Standard Area for Ladder Fragments  
Lower Marker Concentration [pg/ $\mu$ l] : 125  
Upper Marker Concentration [pg/ $\mu$ l] : 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

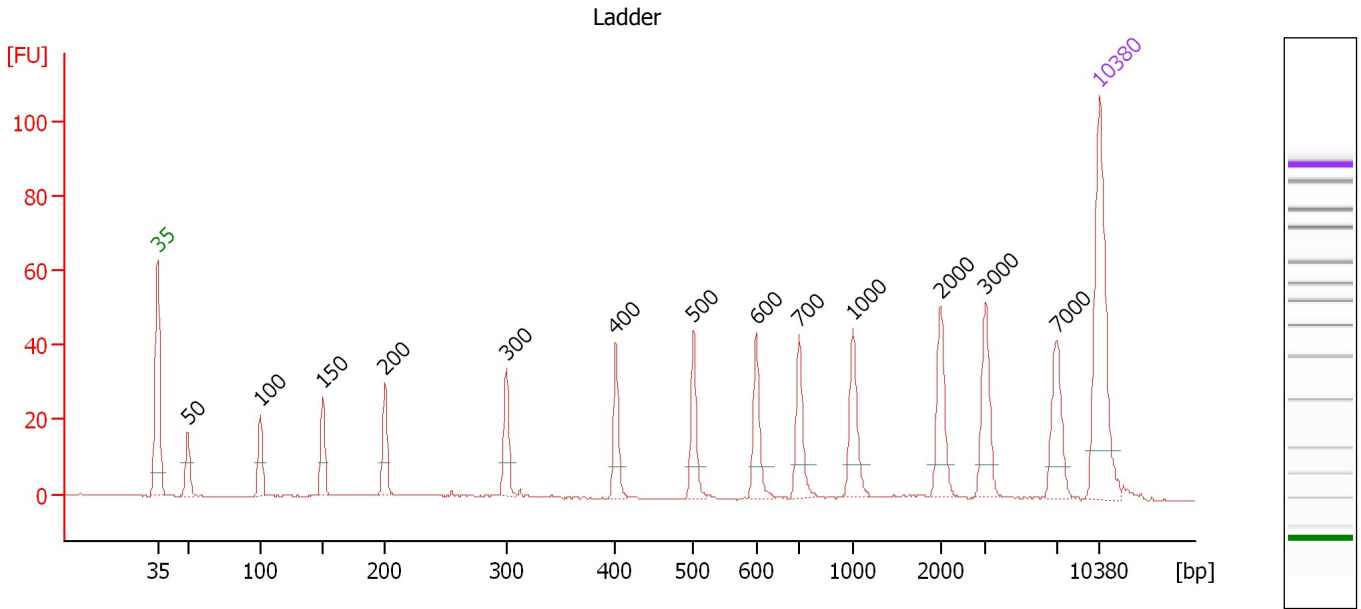
### Ladder

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:\...gs\Bioanalyzer\2013-05-21\2013-05-21\_003\_Kapa\_InteX\_Lig.xad

Created: 5/21/2013 2:50:27 PM  
 Modified: 5/21/2013 3:39:06 PM

**Electropherogram Summary**



**Overall Results for Ladder**

Noise: 0.1

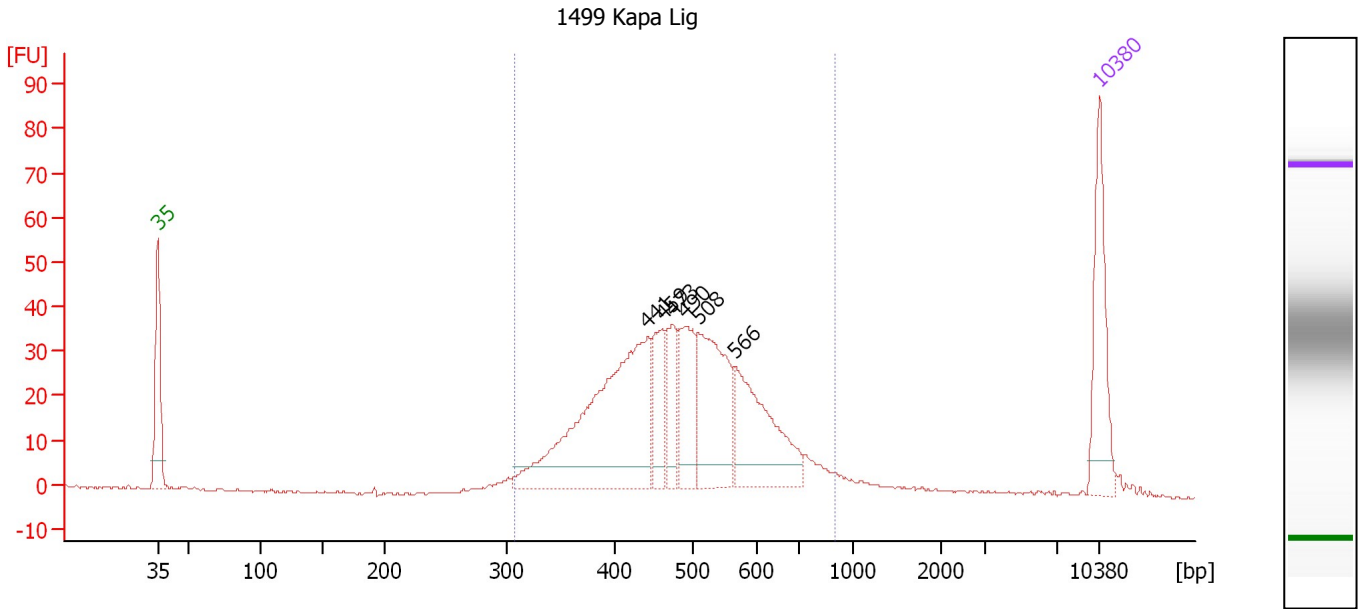
**Peak table for Ladder**

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:\...gs\Bioanalyzer\2013-05-21\2013-05-21\_003\_Kapa\_InteX\_Lig.xad

Created: 5/21/2013 2:50:27 PM  
 Modified: 5/21/2013 3:39:06 PM

**Electropherogram Summary Continued ...**



**Overall Results for sample 3 : 1499 Kapa Lig**

Number of peaks found: 6                      Corr. Area 1: 631.7  
 Noise: 0.2

**Peak table for sample 3 : 1499 Kapa Lig**

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
1	35	125.00	5,411.3	Lower Marker
2	441	325.39	1,118.7	
3	459	58.68	193.5	
4	473	56.68	181.5	
5	490	82.86	256.1	
6	508	141.70	422.6	
7	566	134.11	358.9	
8	10,380	75.00	10.9	Upper Marker

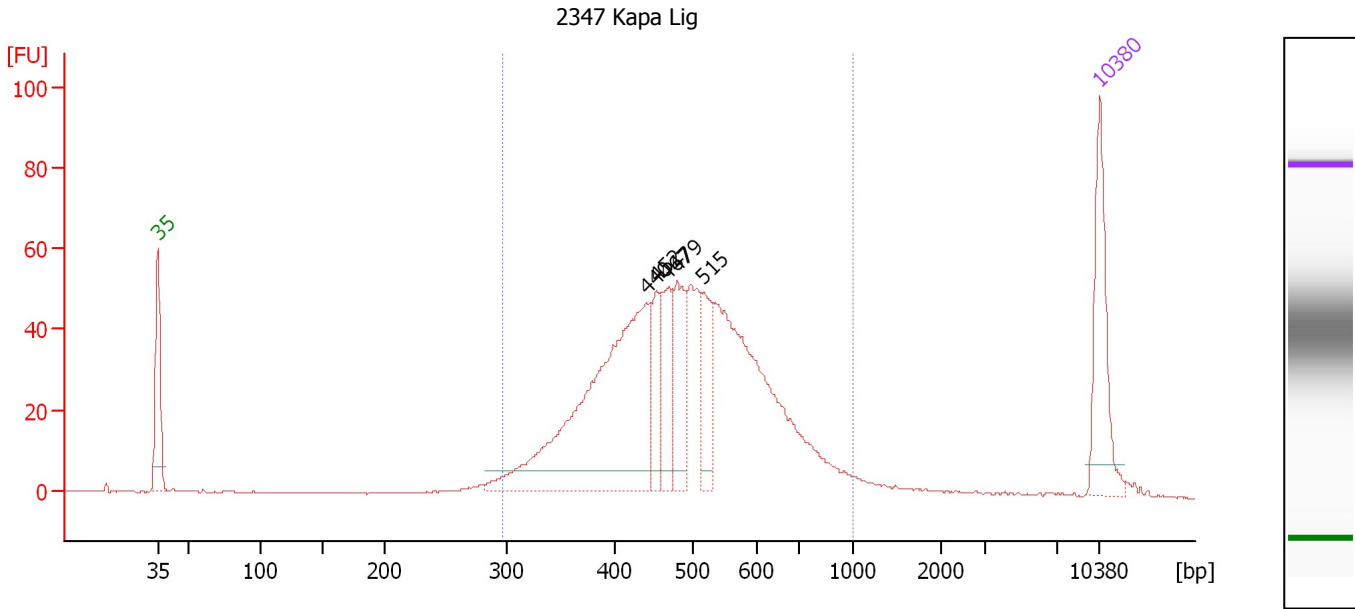
**Region table for sample 3 : 1499 Kapa Lig**

From [bp]	To [bp]	Average Size [bp]	Molarity [pmol/l]	Conc. [pg/μl]	Corr. Area	% of Total	Size distribution in CV [%]	Color
307	895	491	2,886.2	885.98	631.7	94	20.9	Blue

Assay Class: High Sensitivity DNA Assay  
 Data Path: C:\...gs\Bioanalyzer\2013-05-21\2013-05-21\_003\_Kapa\_InteX\_Lig.xad

Created: 5/21/2013 2:50:27 PM  
 Modified: 5/21/2013 3:39:06 PM

**Electropherogram Summary Continued ...**



**Overall Results for sample 4 : 2347 Kapa Lig**

Number of peaks found: 5                      Corr. Area 1: 912.1  
 Noise: 0.2

**Peak table for sample 4 : 2347 Kapa Lig**

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
1	35	125.00	5,411.3	Lower Marker
2	440	387.57	1,335.9	
3	452	48.14	161.4	
4	467	64.00	207.8	
5	479	75.55	239.0	
6	515	62.15	182.8	
7	10,380	75.00	10.9	Upper Marker

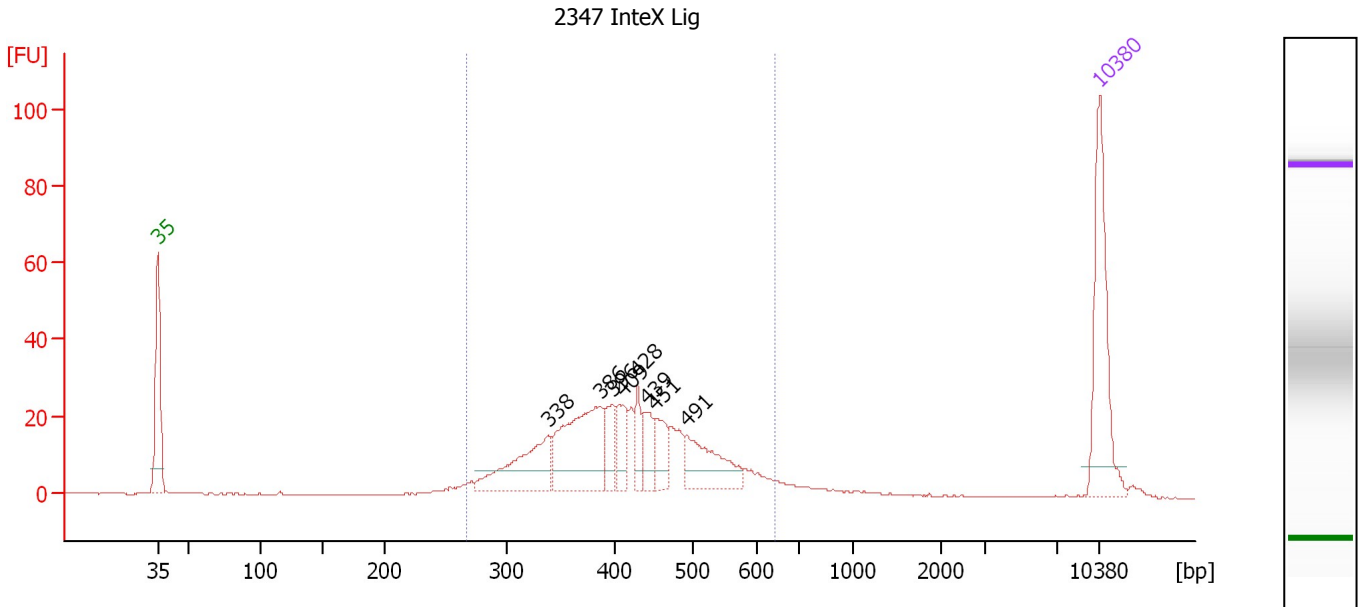
**Region table for sample 4 : 2347 Kapa Lig**

From [bp]	To [bp]	Average Size [bp]	Molarity [pmol/l]	Conc. [pg/μl]	Corr. Area	% of Total	Size distribution in CV [%]	Color
297	1,000	499	3,509.8	1,084.12	912.1	95	23.2	Blue

Assay Class: High Sensitivity DNA Assay  
 Data Path: C:\...gs\Bioanalyzer\2013-05-21\2013-05-21\_003\_Kapa\_InteX\_Lig.xad

Created: 5/21/2013 2:50:27 PM  
 Modified: 5/21/2013 3:39:06 PM

**Electropherogram Summary Continued ...**



**Overall Results for sample 5 : 2347 InteX Lig**

Number of peaks found: 8                      Corr. Area 1: 418.7  
 Noise: 0.1

**Peak table for sample 5 : 2347 InteX Lig**

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
1	35	125.00	5,411.3	Lower Marker
2	338	72.89	326.4	
3	386	107.64	422.8	
4	396	24.27	92.8	
5	409	25.51	94.5	
6	428	21.02	74.4	
7	439	22.47	77.5	
8	451	27.51	92.4	
9	491	54.16	167.1	
10	10,380	75.00	10.9	Upper Marker

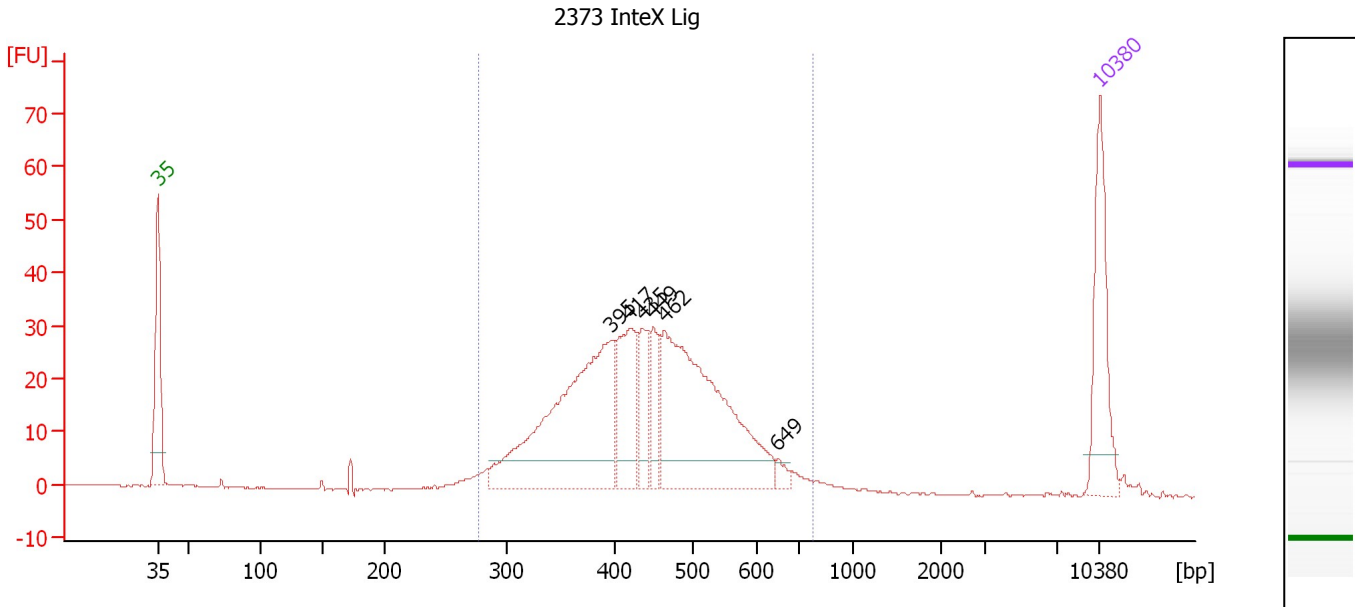
**Region table for sample 5 : 2347 InteX Lig**

From [bp]	To [bp]	Average Size [bp]	Molarity [pmol/l]	Conc. [pg/μl]	Corr. Area	% of Total	Size distribution in CV [%]	Color
266	646	419	1,788.8	470.38	418.7	91	19.3	Blue

Assay Class: High Sensitivity DNA Assay  
 Data Path: C:\...gs\Bioanalyzer\2013-05-21\2013-05-21\_003\_Kapa\_InteX\_Lig.xad

Created: 5/21/2013 2:50:27 PM  
 Modified: 5/21/2013 3:39:06 PM

**Electropherogram Summary Continued ...**



**Overall Results for sample 6 : 2373 InteX Lig**

Number of peaks found: 6                      Corr. Area 1: 534.9  
 Noise: 0.1

**Peak table for sample 6 : 2373 InteX Lig**

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
1	35	125.00	5,411.3	Lower Marker
2	395	291.27	1,117.2	
3	417	93.57	339.8	
4	435	48.63	169.3	
5	449	41.74	140.9	
6	462	294.57	965.8	
7	649	7.73	18.0	
8	10,380	75.00	10.9	Upper Marker

**Region table for sample 6 : 2373 InteX Lig**

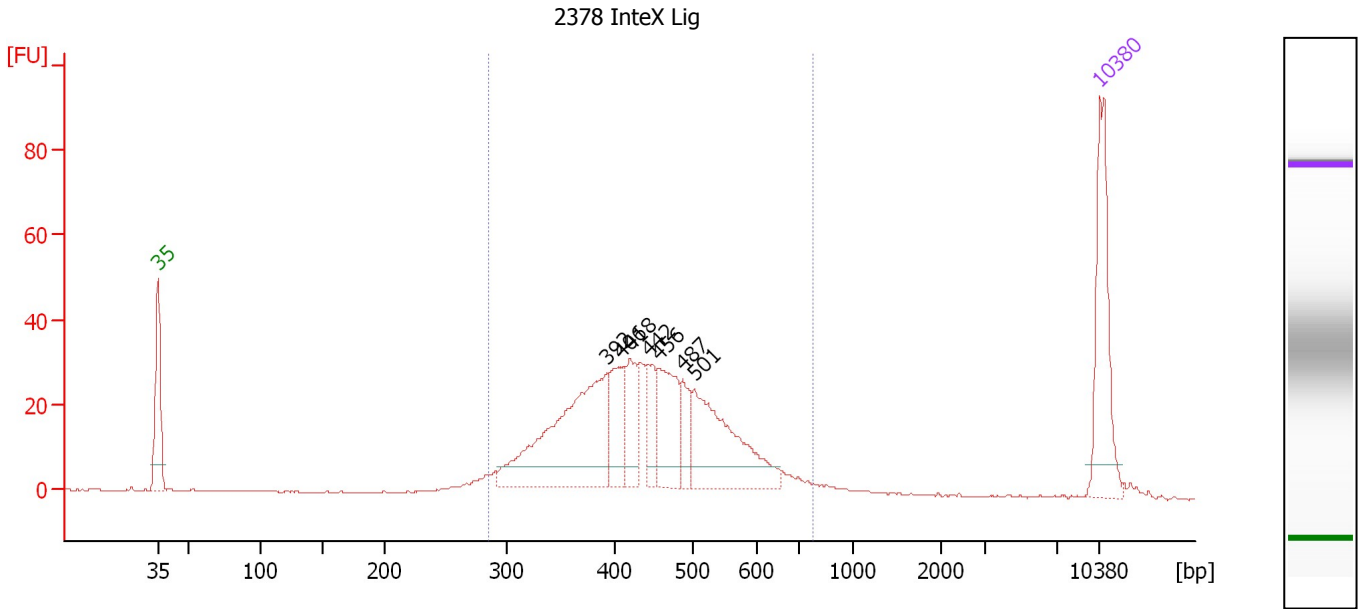
From [bp]	To [bp]	Average Size [bp]	Molarity [pmol/l]	Conc. [pg/μl]	Corr. Area	% of Total	Size distribution in CV [%]	Color
277	771	444	3,014.5	839.03	534.9	96	19.8	Blue



Assay Class: High Sensitivity DNA Assay  
 Data Path: C:\...gs\Bioanalyzer\2013-05-21\2013-05-21\_003\_Kapa\_InteX\_Lig.xad

Created: 5/21/2013 2:50:27 PM  
 Modified: 5/21/2013 3:39:06 PM

**Electropherogram Summary Continued ...**



**Overall Results for sample 7 : 2378 InteX Lig**

Number of peaks found: 7                      Corr. Area 1: 538.7  
 Noise: 0.1

**Peak table for sample 7 : 2378 InteX Lig**

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
1	35	125.00	5,411.3	Lower Marker
2	392	198.31	765.7	
3	406	52.05	194.5	
4	418	42.32	153.3	
5	442	36.08	123.8	
6	456	66.68	221.6	
7	487	27.49	85.6	
8	501	124.42	376.0	
9	10,380	75.00	10.9	Upper Marker

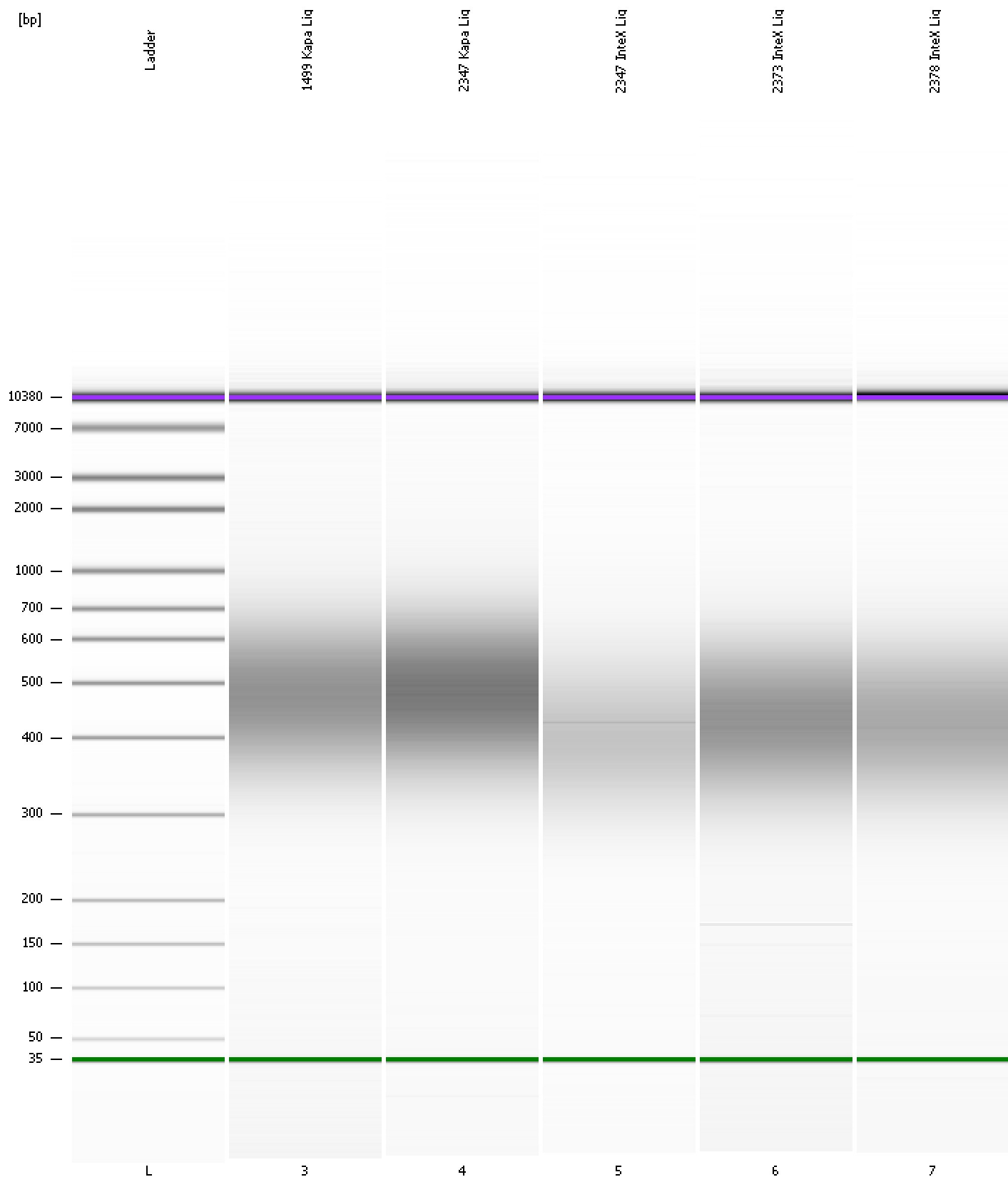
**Region table for sample 7 : 2378 InteX Lig**

From [bp]	To [bp]	Average Size [bp]	Molarity [pmol/l]	Conc. [pg/μl]	Corr. Area	% of Total	Size distribution in CV [%]	Color
285	779	444	2,350.1	654.57	538.7	95	20.0	Blue

Assay Class: High Sensitivity DNA Assay  
Data Path: C:\...gs\Bioanalyzer\2013-05-21\2013-05-21\_003\_Kapa\_InteX\_Lig.xad

Created: 5/21/2013 2:50:27 PM  
Modified: 5/21/2013 3:39:06 PM

**Gel Image**



Assay Class: High Sensitivity DNA Assay Created: 5/21/2013 2:50:27 PM  
 Data Path: C:\...gs\Bioanalyzer\2013-05-21\2013-05-21\_003\_Kapa\_InteX\_Lig.xad Modified: 5/21/2013 3:39:06 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		5/21/2013 3:31:41 PM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Run started on port 1 (File: C:\Documents and Settings\Bioanalyzer\2013-05-21\2013-05-21_003.xad)		Instrument	Run		5/21/2013 2:50:28 PM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Product Number : G2938B		Instrument	Run		5/21/2013 2:50:28 PM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Name :		Instrument	Run		5/21/2013 2:50:28 PM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Vendor : Agilent Technologies		Instrument	Run		5/21/2013 2:50:28 PM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Serial# : DE13701086		Instrument	Run		5/21/2013 2:50:28 PM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Firmware : C.01.069		Instrument	Run		5/21/2013 2:50:28 PM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Cartridge : Electrode		Instrument	Run		5/21/2013 2:50:28 PM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1