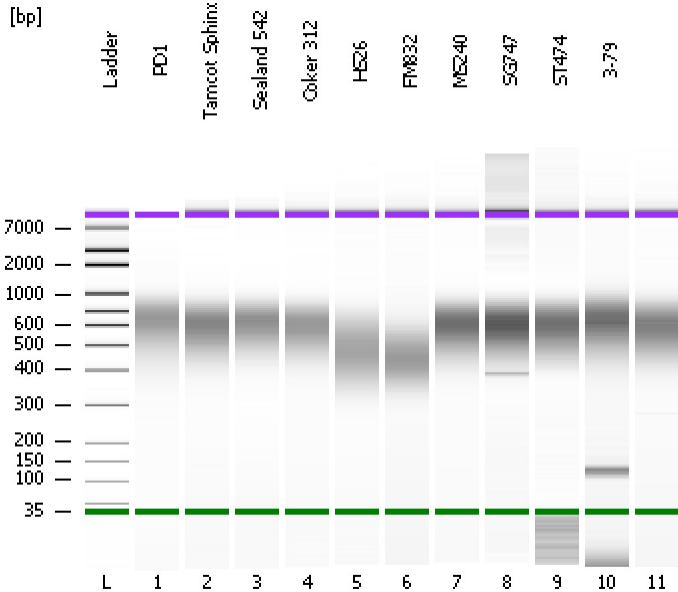


Assay Class: High Sensitivity DNA Assay  
Data Path: C:\Documents and Settings\ONGuyen\Desktop\2013-04-23\_002.xad

Created: 4/23/2013 10:21:27 AM  
Modified: 4/23/2013 11:14:26 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

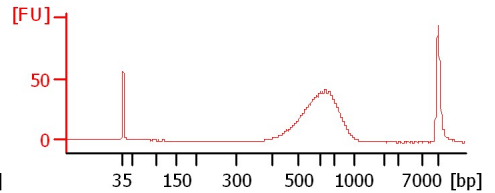
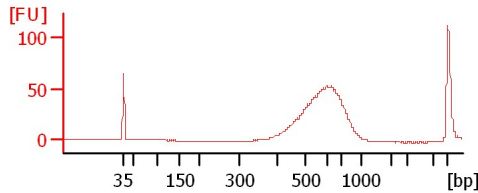
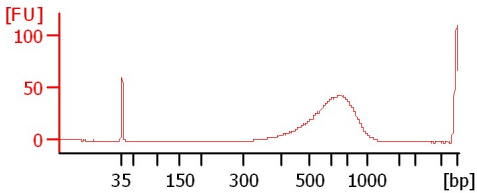
Chip Information:

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

**PD1**

**Tamcot Sphinx**

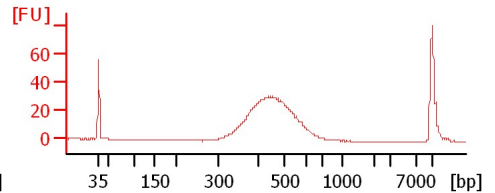
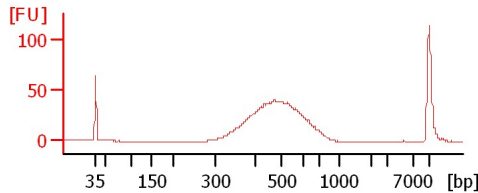
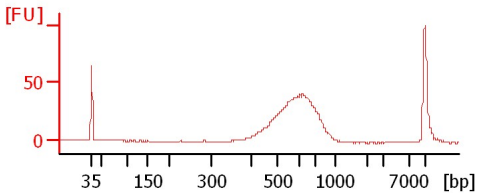
**Sealand 542**



**Coker 312**

**HS26**

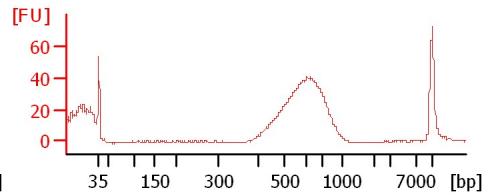
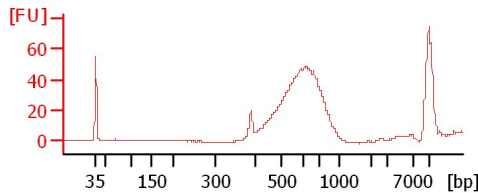
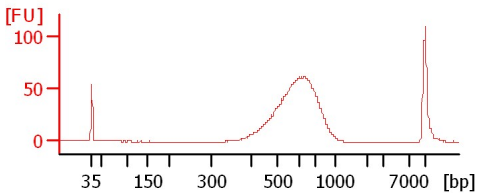
**FM832**



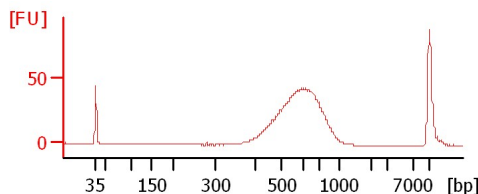
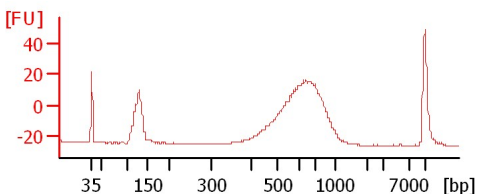
**MS240**

**SG747**

**ST474**



**3-79**



Assay Class: High Sensitivity DNA Assay  
Data Path: C:\Documents and Settings\ONguyen\Desktop\2013-04-23\_002.xad

Created: 4/23/2013 10:21:27 AM  
Modified: 4/23/2013 11:14:26 AM

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

| Sample Name   | Sample Comment | Rest. Digest             | Status | Observation | Result Label | Result Color |
|---------------|----------------|--------------------------|--------|-------------|--------------|--------------|
| PD1           |                | <input type="checkbox"/> | ✓      |             |              |              |
| Tamcot Sphinx |                | <input type="checkbox"/> | ✓      |             |              |              |
| Sealand 542   |                | <input type="checkbox"/> | ✓      |             |              |              |
| Coker 312     |                | <input type="checkbox"/> | ✓      |             |              |              |
| HS26          |                | <input type="checkbox"/> | ✓      |             |              |              |
| FM832         |                | <input type="checkbox"/> | ✓      |             |              |              |
| MS240         |                | <input type="checkbox"/> | ✓      |             |              |              |
| SG747         |                | <input type="checkbox"/> | ✓      |             |              |              |
| ST474         |                | <input type="checkbox"/> | ✓      |             |              |              |
| 3-79          |                | <input type="checkbox"/> | ✓      |             |              |              |
| Ladder        |                | <input type="checkbox"/> | ✓      |             |              |              |

**Chip Lot #**

**Reagent Kit Lot #**

**Chip Comments :**

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Assay Class: High Sensitivity DNA Assay  
Data Path: C:\Documents and Settings\ONGuyen\Desktop\2013-04-23\_002.xad

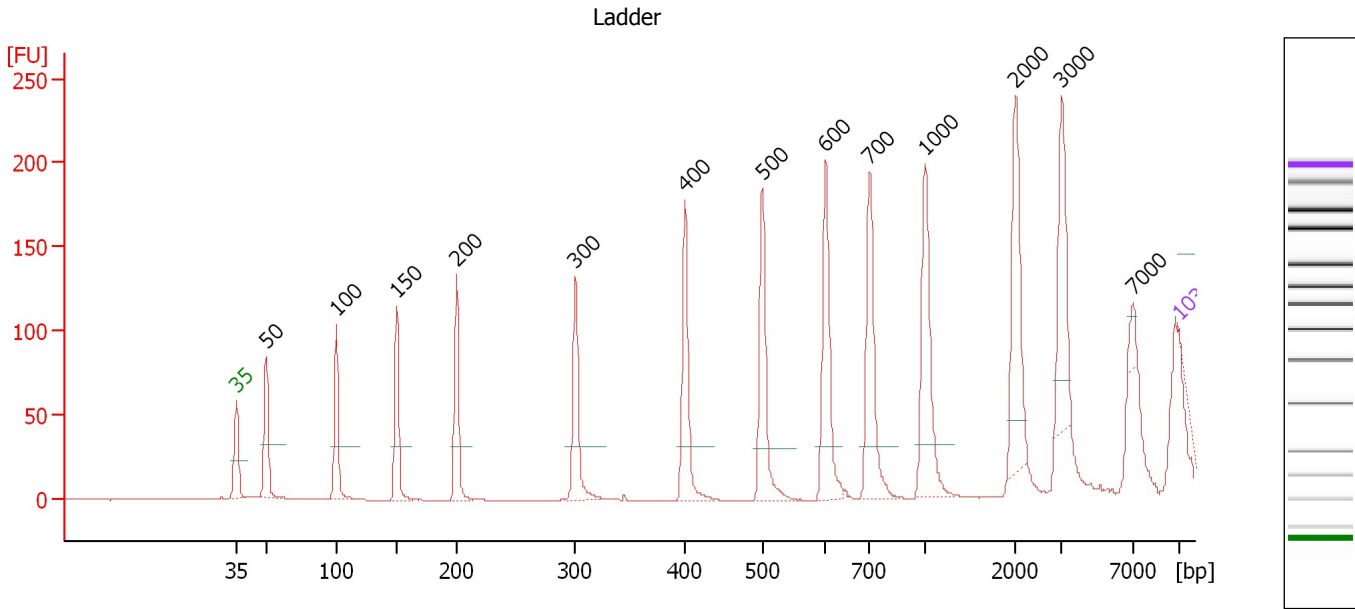
Created: 4/23/2013 10:21:27 AM  
Modified: 4/23/2013 11:14:26 AM

**Electrophoresis Assay Details**

Assay Class: High Sensitivity DNA Assay  
 Data Path: C:\Documents and Settings\ONGuyen\Desktop\2013-04-23\_002.xad

Created: 4/23/2013 10:21:27 AM  
 Modified: 4/23/2013 11:14:26 AM

**Electropherogram Summary**



**Overall Results for Ladder**

Noise: 0.1

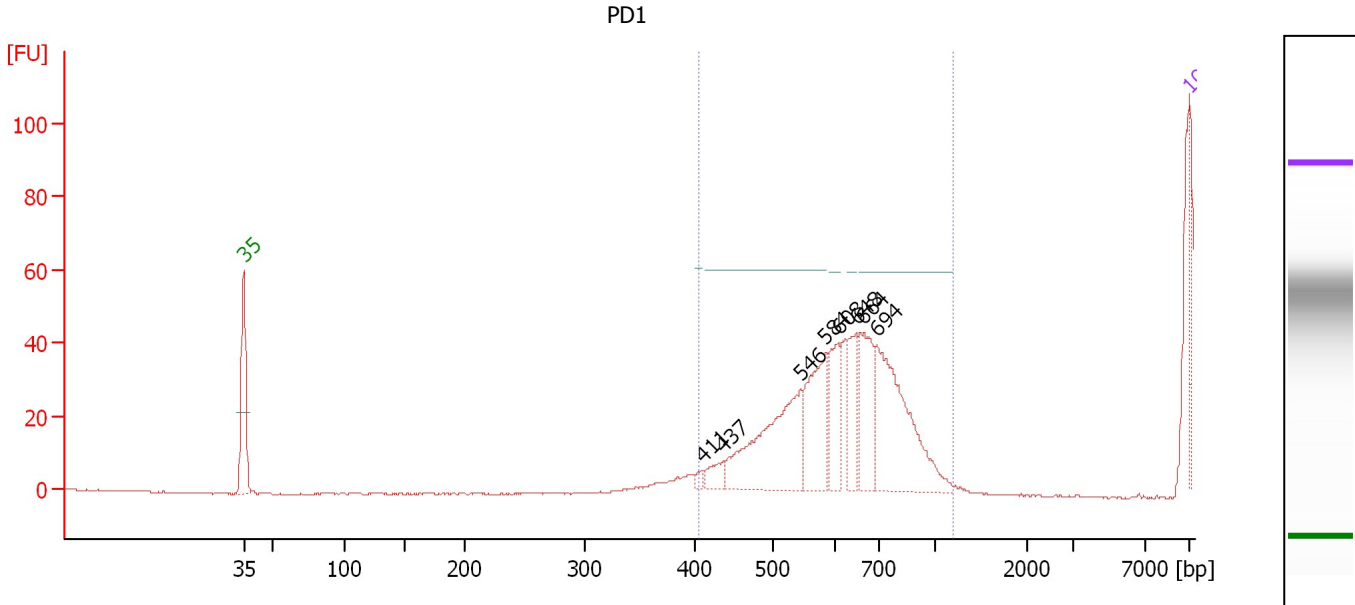
**Peak table for Ladder**

| 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:\Documents and Settings\ONguyen\Desktop\2013-04-23\_002.xad

Created: 4/23/2013 10:21:27 AM  
 Modified: 4/23/2013 11:14:26 AM

**Electropherogram Summary Continued ...**



**Setpoint Deviations for sample 1 : PD1**

Height Threshold [FU] : 60

**Overall Results for sample 1 : PD1**

Number of peaks found: 8  
 Noise: 0.2  
 Corr. Area 1: 0.0

**Peak table for sample 1 : PD1**

| Peak | Size [bp] | Conc. [pg/μl] | Molarity [pmol/l] | Observations |
|------|-----------|---------------|-------------------|--------------|
| 1    | 35        | 125.00        | 5,411.3           | Lower Marker |
| 2    | 411       | 39.10         | 144.2             |              |
| 3    | 437       | 128.38        | 445.2             |              |
| 4    | 546       | 1,126.07      | 3,125.1           |              |
| 5    | 584       | 660.43        | 1,712.2           |              |
| 6    | 608       | 386.40        | 963.3             |              |
| 7    | 648       | 379.85        | 888.5             |              |
| 8    | 664       | 489.36        | 1,117.4           |              |
| 9    | 694       | 1,196.85      | 2,613.5           |              |
| 10   | 10,380    | 75.00         | 10.9              | Upper Marker |

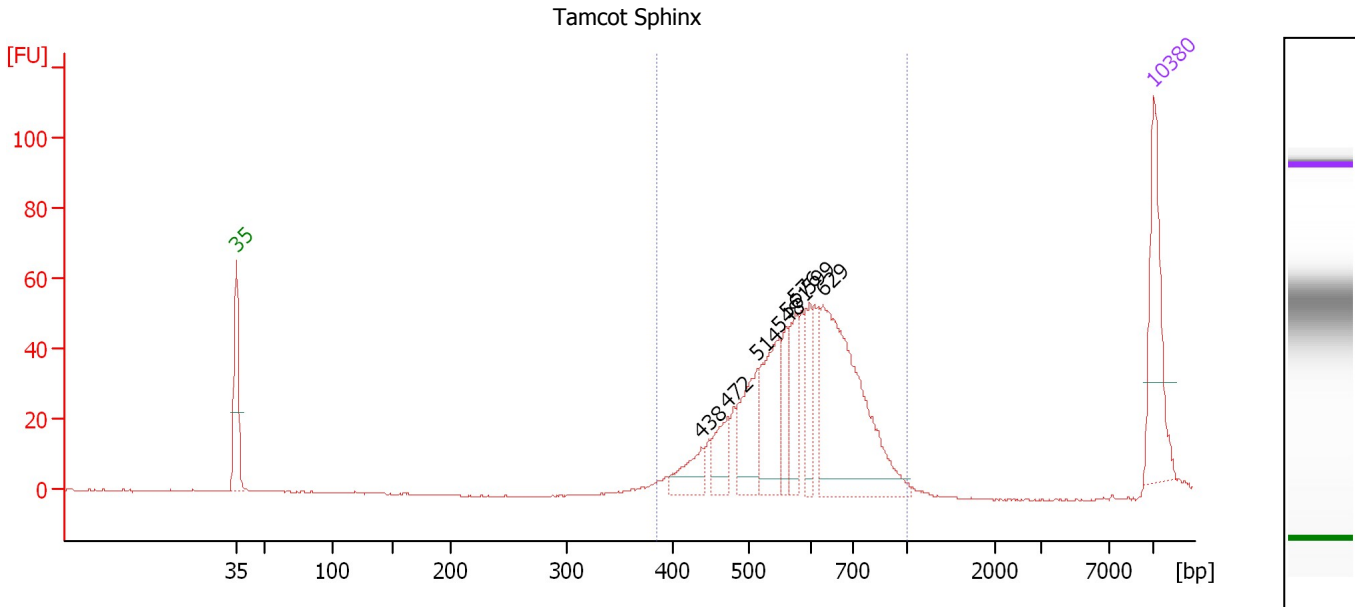
**Region table for sample 1 : PD1**

| From [bp] | To [bp] | Average Size [bp] | Molarity [pmol/l] | Conc. [pg/μl] | % of Total | Corr. Area | Size distribution in CV [%] | Color |
|-----------|---------|-------------------|-------------------|---------------|------------|------------|-----------------------------|-------|
| 407       | 1,183   | 0                 | 0.0               | 0.00          | 0          | 0.0        | 0.0                         | Blue  |

Assay Class: High Sensitivity DNA Assay  
 Data Path: C:\Documents and Settings\ONguyen\Desktop\2013-04-23\_002.xad

Created: 4/23/2013 10:21:27 AM  
 Modified: 4/23/2013 11:14:26 AM

**Electropherogram Summary Continued ...**



**Overall Results for sample 2 : Tamcot Sphinx**

Number of peaks found: 8                      Corr. Area 1: 599.1  
 Noise: 0.2

**Peak table for sample 2 : Tamcot Sphinx**

| Peak | Size [bp] | Conc. [pg/μl] | Molarity [pmol/l] | Observations |
|------|-----------|---------------|-------------------|--------------|
| 1    | 35        | 125.00        | 5,411.3           | Lower Marker |
| 2    | 438       | 34.50         | 119.4             |              |
| 3    | 472       | 37.19         | 119.3             |              |
| 4    | 514       | 71.51         | 210.8             |              |
| 5    | 548       | 83.82         | 231.6             |              |
| 6    | 561       | 32.89         | 88.8              |              |
| 7    | 576       | 46.74         | 123.0             |              |
| 8    | 599       | 40.75         | 103.0             |              |
| 9    | 629       | 232.31        | 559.6             |              |
| 10   | 10,380    | 75.00         | 10.9              | Upper Marker |

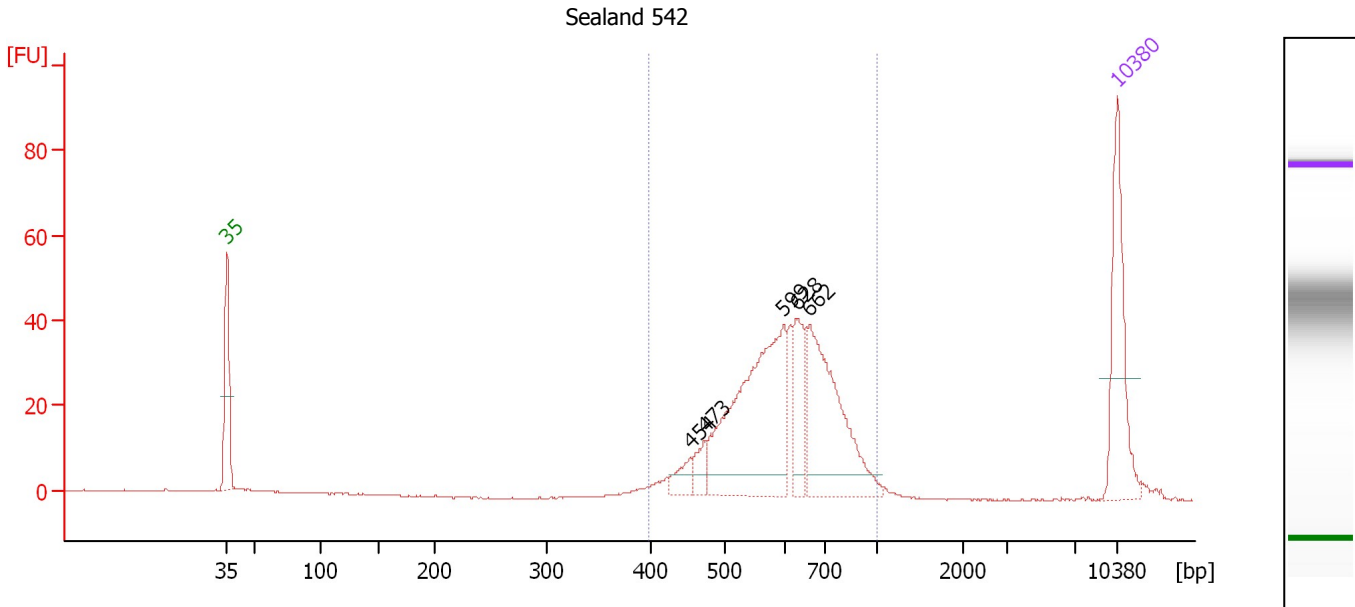
**Region table for sample 2 : Tamcot Sphinx**

| From [bp] | To [bp] | Average Size [bp] | Molarity [pmol/l] | Conc. [pg/μl] | % of Total | Corr. Area | Size distribution in CV [%] | Color |
|-----------|---------|-------------------|-------------------|---------------|------------|------------|-----------------------------|-------|
| 385       | 1,000   | 596               | 1,603.8           | 608.52        | 99         | 599.1      | 17.2                        | Blue  |

Assay Class: High Sensitivity DNA Assay  
 Data Path: C:\Documents and Settings\ONguyen\Desktop\2013-04-23\_002.xad

Created: 4/23/2013 10:21:27 AM  
 Modified: 4/23/2013 11:14:26 AM

**Electropherogram Summary Continued ...**



**Overall Results for sample 3 : Sealand 542**

Number of peaks found: 5                      Corr. Area 1: 463.2  
 Noise: 0.1

**Peak table for sample 3 : Sealand 542**

| Peak | Size [bp] | Conc. [pg/μl] | Molarity [pmol/l] | Observations |
|------|-----------|---------------|-------------------|--------------|
| 1    | 35        | 125.00        | 5,411.3           | Lower Marker |
| 2    | 454       | 18.49         | 61.7              |              |
| 3    | 473       | 17.46         | 56.0              |              |
| 4    | 599       | 218.70        | 553.0             |              |
| 5    | 628       | 52.98         | 127.7             |              |
| 6    | 662       | 158.31        | 362.3             |              |
| 7    | 10,380    | 75.00         | 10.9              | Upper Marker |

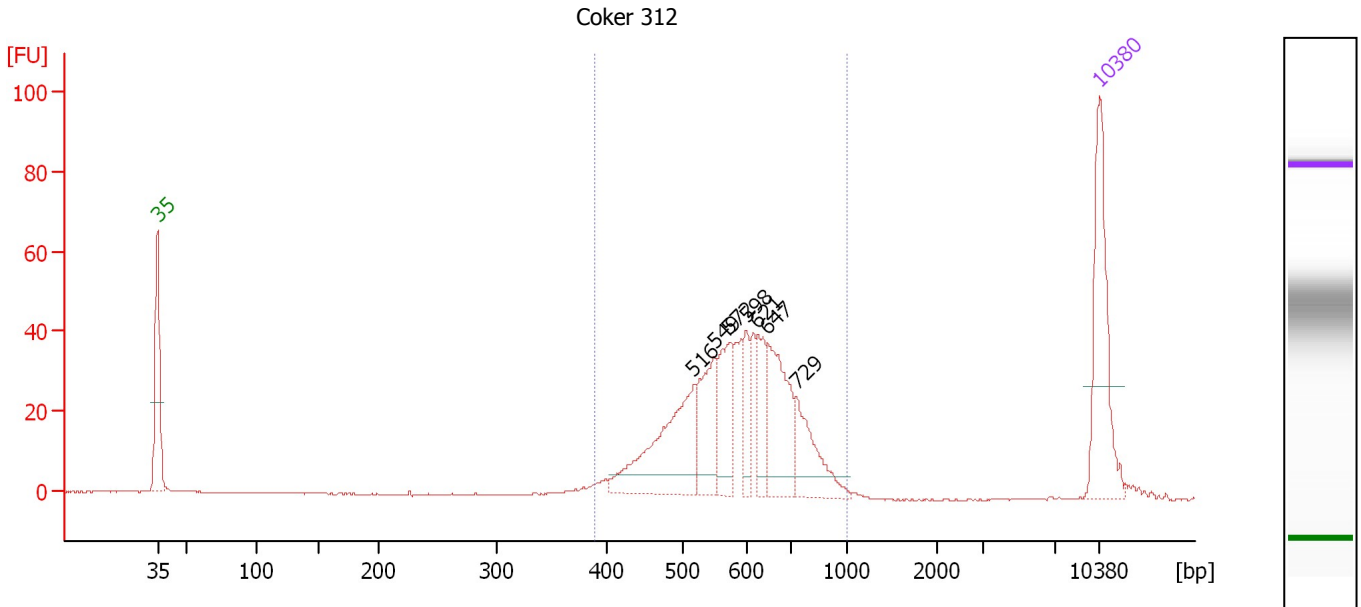
**Region table for sample 3 : Sealand 542**

| From [bp] | To [bp] | Average Size [bp] | Molarity [pmol/l] | Conc. [pg/μl] | % of Total | Corr. Area | Size distribution in CV [%] | Color |
|-----------|---------|-------------------|-------------------|---------------|------------|------------|-----------------------------|-------|
| 397       | 1,000   | 616               | 1,322.3           | 517.28        | 95         | 463.2      | 18.0                        | Blue  |

Assay Class: High Sensitivity DNA Assay  
 Data Path: C:\Documents and Settings\ONguyen\Desktop\2013-04-23\_002.xad

Created: 4/23/2013 10:21:27 AM  
 Modified: 4/23/2013 11:14:26 AM

**Electropherogram Summary Continued ...**



**Overall Results for sample 4 : Coker 312**

Number of peaks found: 7                      Corr. Area 1: 482.6  
 Noise: 0.1

**Peak table for sample 4 : Coker 312**

| Peak | Size [bp] | Conc. [pg/μl] | Molarity [pmol/l] | Observations |
|------|-----------|---------------|-------------------|--------------|
| 1    | 35        | 125.00        | 5,411.3           | Lower Marker |
| 2    | 516       | 117.65        | 345.8             |              |
| 3    | 549       | 57.30         | 158.3             |              |
| 4    | 572       | 51.83         | 137.4             |              |
| 5    | 598       | 28.03         | 71.0              |              |
| 6    | 621       | 35.38         | 86.3              |              |
| 7    | 647       | 76.32         | 178.8             |              |
| 8    | 729       | 50.50         | 105.0             |              |
| 9    | 10,380    | 75.00         | 10.9              | Upper Marker |

**Region table for sample 4 : Coker 312**

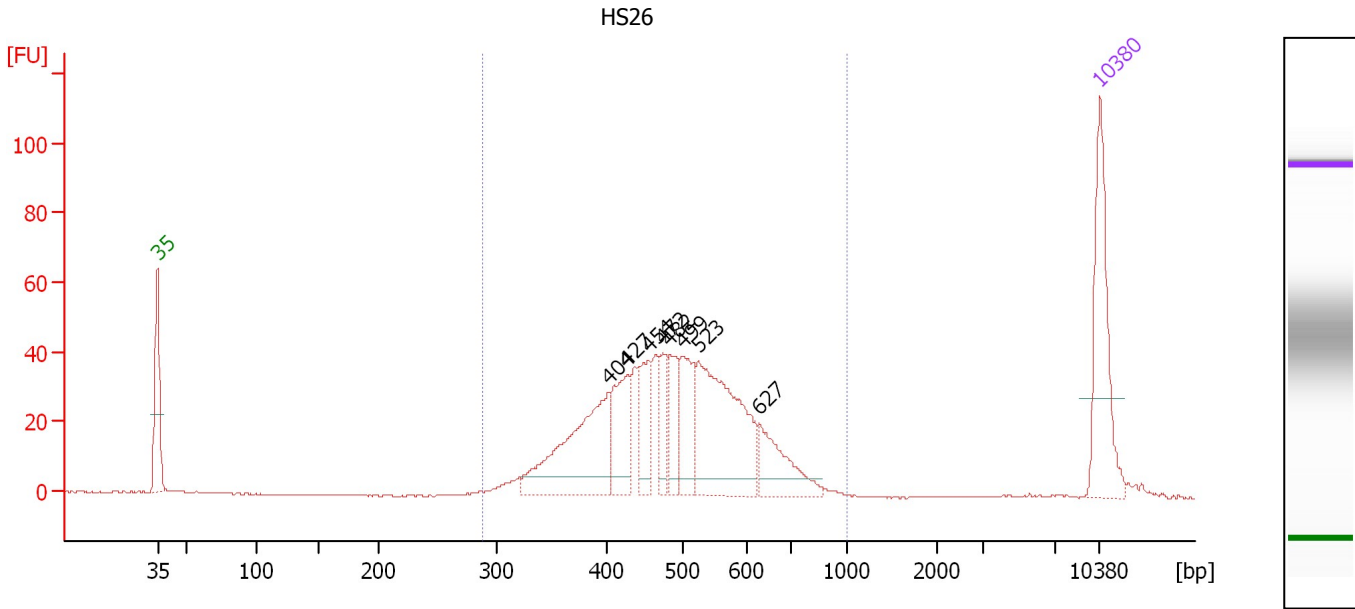
| From [bp] | To [bp] | Average Size [bp] | Molarity [pmol/l] | Conc. [pg/μl] | % of Total | Corr. Area | Size distribution in CV [%] | Color |
|-----------|---------|-------------------|-------------------|---------------|------------|------------|-----------------------------|-------|
| 389       | 1,000   | 596               | 1,286.9           | 486.97        | 95         | 482.6      | 17.9                        | Blue  |



Assay Class: High Sensitivity DNA Assay  
 Data Path: C:\Documents and Settings\ONguyen\Desktop\2013-04-23\_002.xad

Created: 4/23/2013 10:21:27 AM  
 Modified: 4/23/2013 11:14:26 AM

**Electropherogram Summary Continued ...**



**Overall Results for sample 5 : HS26**

Number of peaks found: 8                      Corr. Area 1: 703.6  
 Noise: 0.2

**Peak table for sample 5 : HS26**

| Peak | Size [bp] | Conc. [pg/μl] | Molarity [pmol/l] | Observations |
|------|-----------|---------------|-------------------|--------------|
| 1    | 35        | 125.00        | 5,411.3           | Lower Marker |
| 2    | 404       | 133.97        | 502.3             |              |
| 3    | 427       | 57.07         | 202.7             |              |
| 4    | 454       | 40.81         | 136.2             |              |
| 5    | 472       | 27.86         | 89.3              |              |
| 6    | 482       | 37.81         | 118.9             |              |
| 7    | 499       | 54.76         | 166.3             |              |
| 8    | 523       | 156.59        | 453.4             |              |
| 9    | 627       | 49.90         | 120.5             |              |
| 10   | 10,380    | 75.00         | 10.9              | Upper Marker |

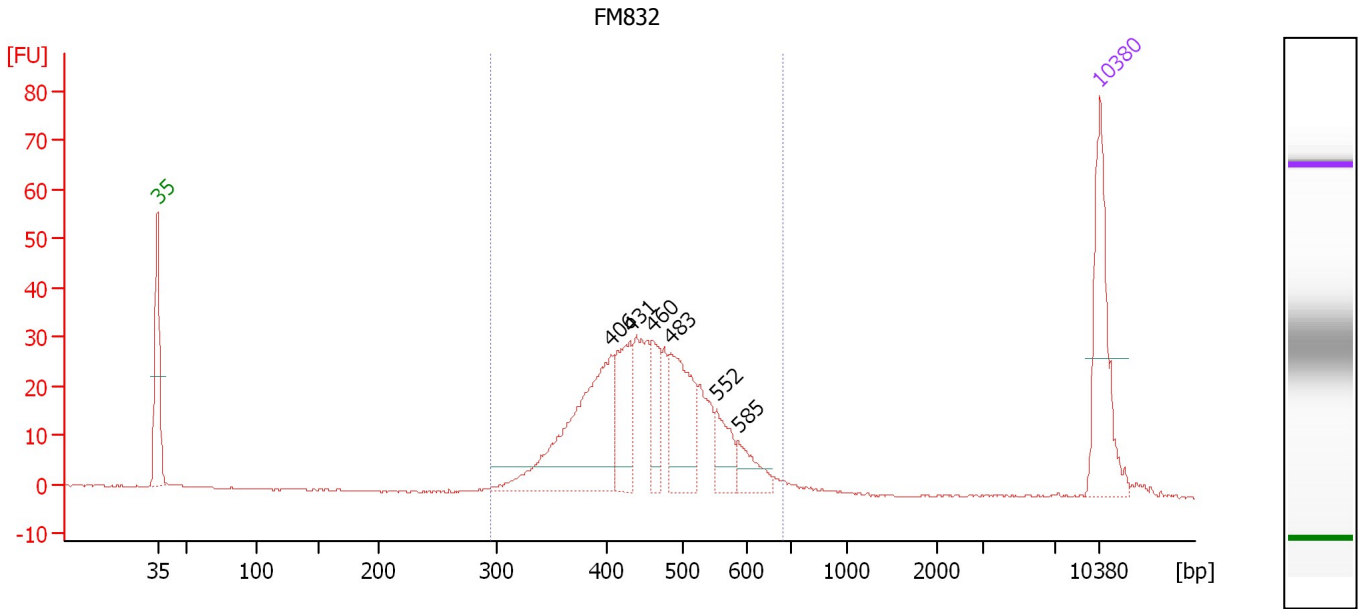
**Region table for sample 5 : HS26**

| From [bp] | To [bp] | Average Size [bp] | Molarity [pmol/l] | Conc. [pg/μl] | % of Total | Corr. Area | Size distribution in CV [%] | Color |
|-----------|---------|-------------------|-------------------|---------------|------------|------------|-----------------------------|-------|
| 289       | 1,000   | 492               | 2,106.8           | 647.42        | 97         | 703.6      | 21.0                        | Blue  |

Assay Class: High Sensitivity DNA Assay  
 Data Path: C:\Documents and Settings\ONguyen\Desktop\2013-04-23\_002.xad

Created: 4/23/2013 10:21:27 AM  
 Modified: 4/23/2013 11:14:26 AM

**Electropherogram Summary Continued ...**



**Overall Results for sample 6 : FM832**

Number of peaks found: 6                      Corr. Area 1: 453.2  
 Noise: 0.2

**Peak table for sample 6 : FM832**

| Peak | Size [bp] | Conc. [pg/μl] | Molarity [pmol/l] | Observations |
|------|-----------|---------------|-------------------|--------------|
| 1    | 35        | 125.00        | 5,411.3           | Lower Marker |
| 2    | 406       | 177.43        | 661.4             |              |
| 3    | 431       | 64.60         | 227.1             |              |
| 4    | 460       | 40.18         | 132.3             |              |
| 5    | 483       | 87.74         | 275.2             |              |
| 6    | 552       | 31.93         | 87.7              |              |
| 7    | 585       | 25.39         | 65.7              |              |
| 8    | 10,380    | 75.00         | 10.9              | Upper Marker |

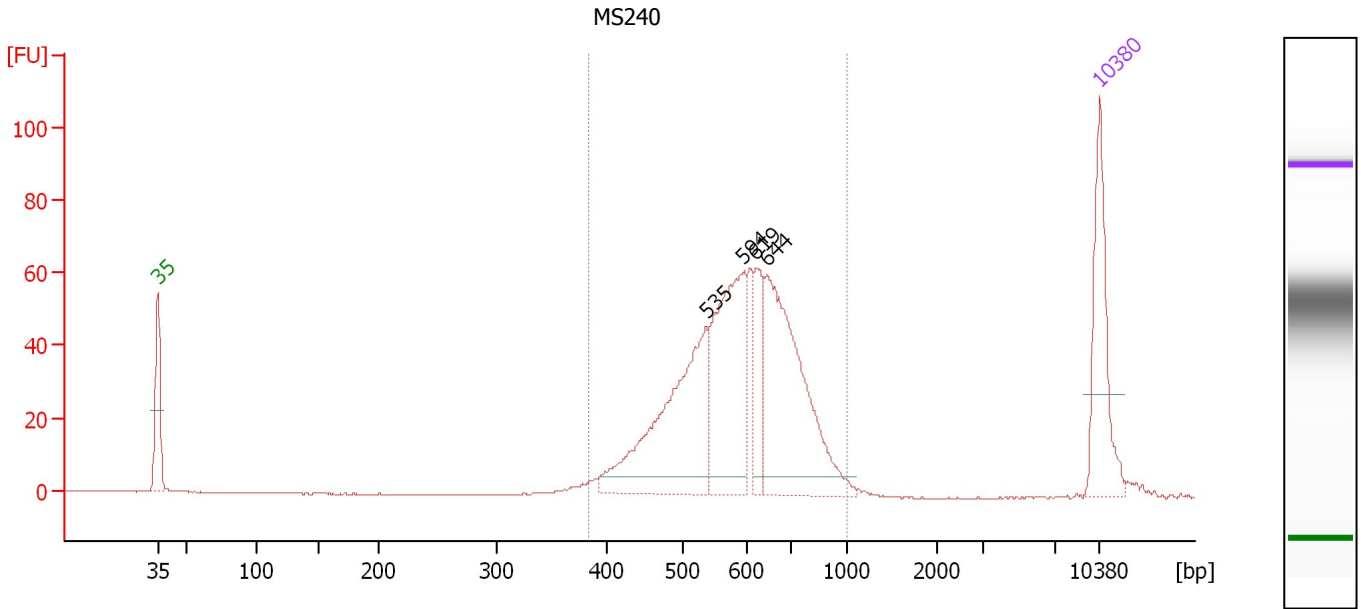
**Region table for sample 6 : FM832**

| From [bp] | To [bp] | Average Size [bp] | Molarity [pmol/l] | Conc. [pg/μl] | % of Total | Corr. Area | Size distribution in CV [%] | Color |
|-----------|---------|-------------------|-------------------|---------------|------------|------------|-----------------------------|-------|
| 295       | 682     | 457               | 1,982.0           | 578.44        | 95         | 453.2      | 16.1                        | Blue  |

Assay Class: High Sensitivity DNA Assay  
 Data Path: C:\Documents and Settings\ONguyen\Desktop\2013-04-23\_002.xad

Created: 4/23/2013 10:21:27 AM  
 Modified: 4/23/2013 11:14:26 AM

**Electropherogram Summary Continued ...**



**Overall Results for sample 7 : MS240**

Number of peaks found: 4                      Corr. Area 1: 734.8  
 Noise: 0.2

**Peak table for sample 7 : MS240**

| Peak | Size [bp] | Conc. [pg/μl] | Molarity [pmol/l] | Observations |
|------|-----------|---------------|-------------------|--------------|
| 1    | 35        | 125.00        | 5,411.3           | Lower Marker |
| 2    | 535       | 208.54        | 590.2             |              |
| 3    | 594       | 173.04        | 441.6             |              |
| 4    | 619       | 49.37         | 120.8             |              |
| 5    | 644       | 219.62        | 516.3             |              |
| 6    | 10,380    | 75.00         | 10.9              | Upper Marker |

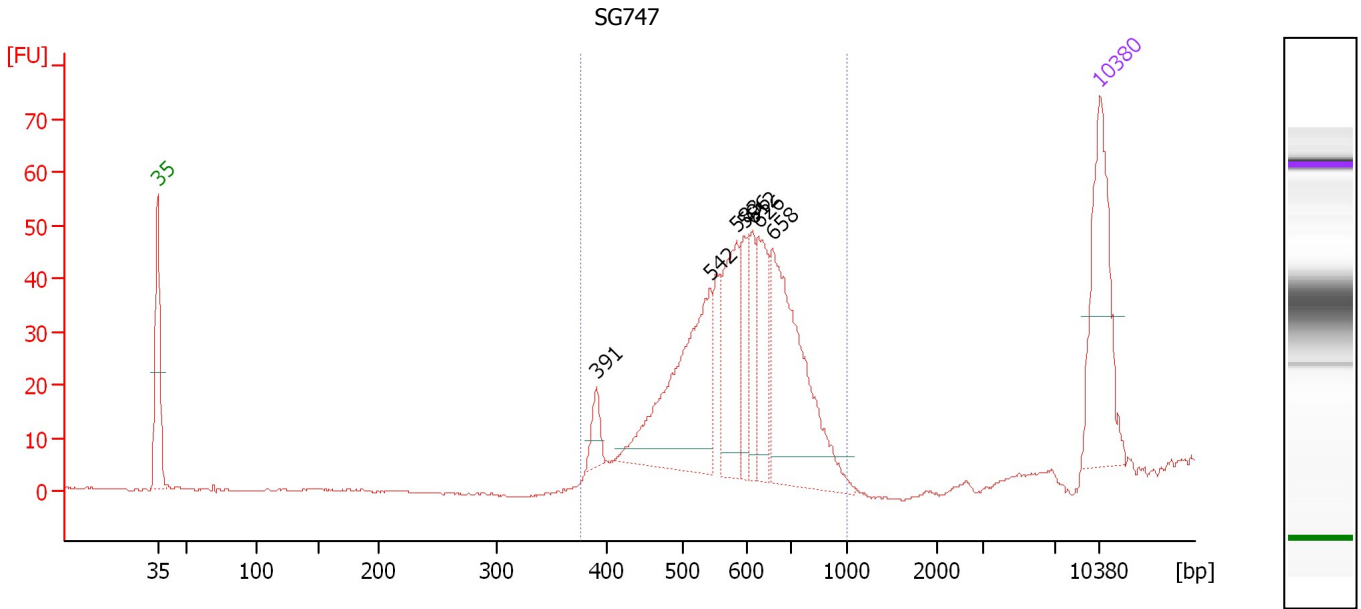
**Region table for sample 7 : MS240**

| From [bp] | To [bp] | Average Size [bp] | Molarity [pmol/l] | Conc. [pg/μl] | % of Total | Corr. Area | Size distribution in CV [%] | Color |
|-----------|---------|-------------------|-------------------|---------------|------------|------------|-----------------------------|-------|
| 383       | 1,000   | 601               | 1,863.6           | 709.69        | 96         | 734.8      | 18.3                        | Blue  |

Assay Class: High Sensitivity DNA Assay  
 Data Path: C:\Documents and Settings\ONguyen\Desktop\2013-04-23\_002.xad

Created: 4/23/2013 10:21:27 AM  
 Modified: 4/23/2013 11:14:26 AM

**Electropherogram Summary Continued ...**



**Overall Results for sample 8 : SG747**

Number of peaks found: 7                      Corr. Area 1: 471.0  
 Noise: 0.1

**Peak table for sample 8 : SG747**

| Peak | Size [bp] | Conc. [pg/μl] | Molarity [pmol/l] | Observations |
|------|-----------|---------------|-------------------|--------------|
| 1    | 35        | 125.00        | 5,411.3           | Lower Marker |
| 2    | 391       | 15.79         | 61.2              |              |
| 3    | 542       | 141.32        | 395.1             |              |
| 4    | 583       | 70.75         | 183.8             |              |
| 5    | 596       | 33.12         | 84.3              |              |
| 6    | 612       | 31.07         | 76.9              |              |
| 7    | 626       | 48.91         | 118.4             |              |
| 8    | 658       | 147.24        | 339.2             |              |
| 9    | 10,380    | 75.00         | 10.9              | Upper Marker |

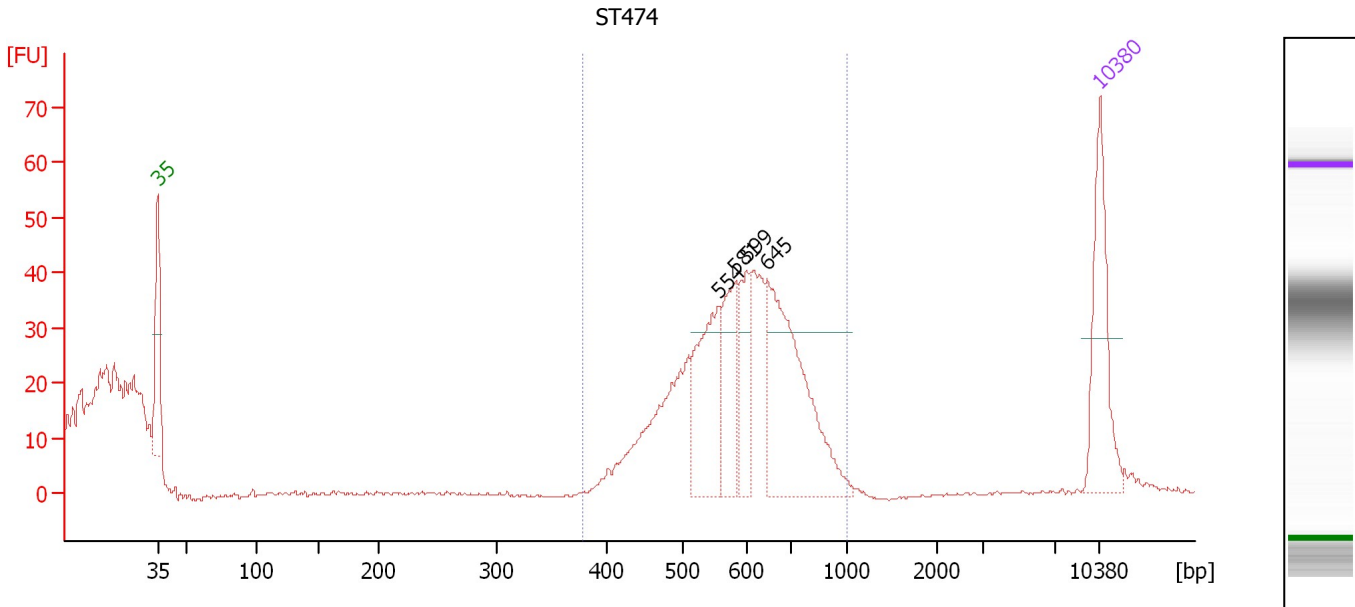
**Region table for sample 8 : SG747**

| From [bp] | To [bp] | Average Size [bp] | Molarity [pmol/l] | Conc. [pg/μl] | % of Total | Corr. Area | Size distribution in CV [%] | Color |
|-----------|---------|-------------------|-------------------|---------------|------------|------------|-----------------------------|-------|
| 376       | 1,000   | 593               | 1,264.9           | 477.15        | 98         | 471.0      | 16.5                        | Blue  |

Assay Class: High Sensitivity DNA Assay  
 Data Path: C:\Documents and Settings\ONguyen\Desktop\2013-04-23\_002.xad

Created: 4/23/2013 10:21:27 AM  
 Modified: 4/23/2013 11:14:26 AM

**Electropherogram Summary Continued ...**



**Setpoint Deviations for sample 9 : ST474**

Height Threshold [FU] : 30

**Overall Results for sample 9 : ST474**

Number of peaks found: 4  
 Noise: 0.3  
 Corr. Area 1: 352.2

**Peak table for sample 9 : ST474**

| Peak | Size [bp] | Conc. [pg/μl] | Molarity [pmol/l] | Observations |
|------|-----------|---------------|-------------------|--------------|
| 1    | 35        | 125.00        | 5,411.3           | Lower Marker |
| 2    | 554       | 109.75        | 300.2             |              |
| 3    | 581       | 67.21         | 175.2             |              |
| 4    | 599       | 50.55         | 127.9             |              |
| 5    | 645       | 193.43        | 454.5             |              |
| 6    | 10,380    | 75.00         | 10.9              | Upper Marker |

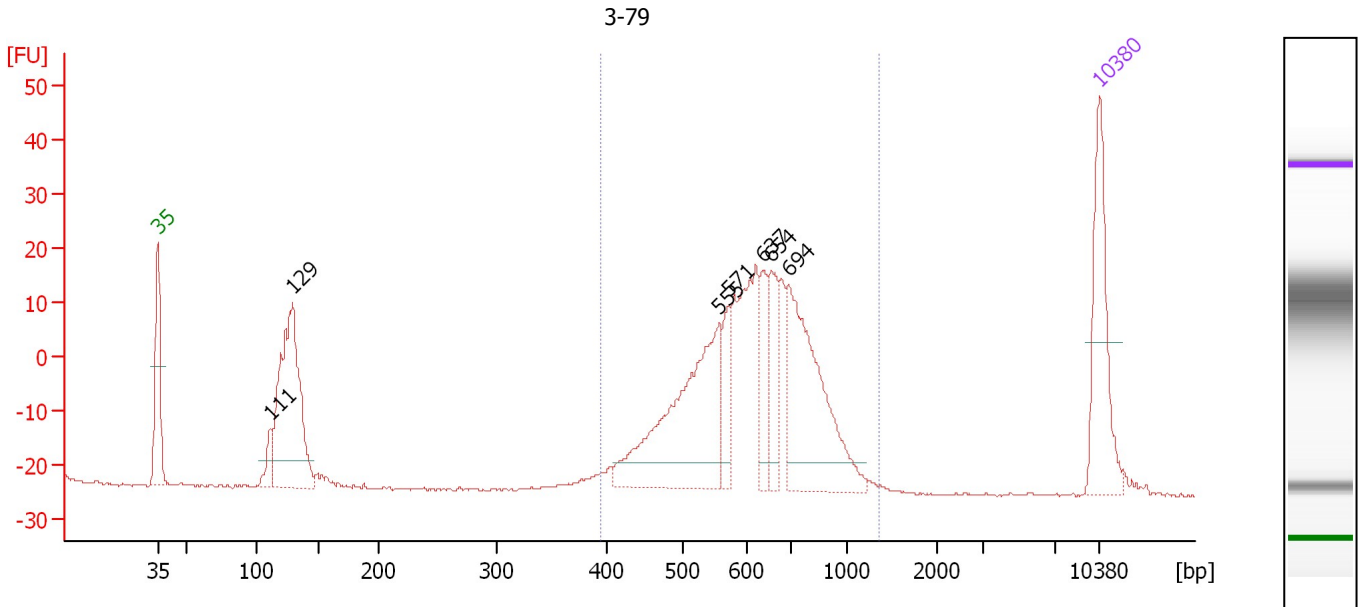
**Region table for sample 9 : ST474**

| From [bp] | To [bp] | Average Size [bp] | Molarity [pmol/l] | Conc. [pg/μl] | % of Total | Corr. Area | Size distribution in CV [%] | Color |
|-----------|---------|-------------------|-------------------|---------------|------------|------------|-----------------------------|-------|
| 379       | 1,000   | 607               | 1,222.6           | 476.30        | 72         | 352.2      | 15.2                        | Blue  |

Assay Class: High Sensitivity DNA Assay  
 Data Path: C:\Documents and Settings\ONguyen\Desktop\2013-04-23\_002.xad

Created: 4/23/2013 10:21:27 AM  
 Modified: 4/23/2013 11:14:26 AM

**Electropherogram Summary Continued ...**



**Overall Results for sample 10 : 3-79**

Number of peaks found: 7                      Corr. Area 1: 309.7  
 Noise: 0.2

**Peak table for sample 10 : 3-79**

| Peak | Size [bp] | Conc. [pg/μl] | Molarity [pmol/l] | Observations |
|------|-----------|---------------|-------------------|--------------|
| 1    | 35        | 125.00        | 5,411.3           | Lower Marker |
| 2    | 111       | 21.74         | 296.9             |              |
| 3    | 129       | 224.17        | 2,632.2           |              |
| 4    | 555       | 196.68        | 537.0             |              |
| 5    | 571       | 32.91         | 87.4              |              |
| 6    | 637       | 39.07         | 92.9              |              |
| 7    | 654       | 47.13         | 109.1             |              |
| 8    | 694       | 168.97        | 368.7             |              |
| 9    | 10,380    | 75.00         | 10.9              | Upper Marker |

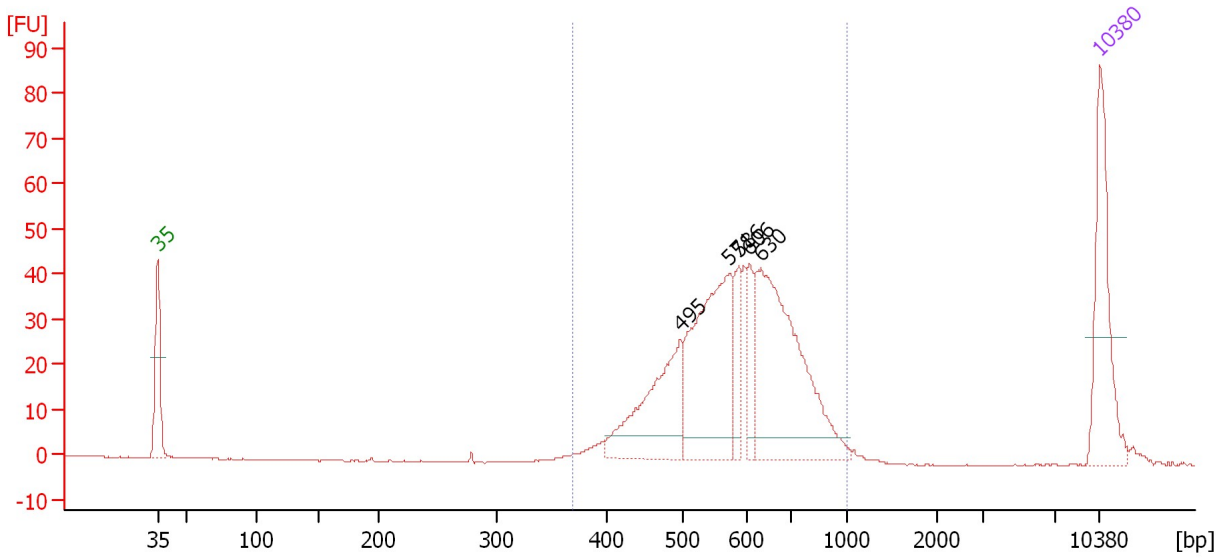
**Region table for sample 10 : 3-79**

| From [bp] | To [bp] | Average Size [bp] | Molarity [pmol/l] | Conc. [pg/μl] | % of Total | Corr. Area | Size distribution in CV [%] | Color |
|-----------|---------|-------------------|-------------------|---------------|------------|------------|-----------------------------|-------|
| 394       | 1,354   | 645               | 990.0             | 409.71        | 90         | 309.7      | 16.2                        | Blue  |

Assay Class: High Sensitivity DNA Assay  
 Data Path: C:\Documents and Settings\ONguyen\Desktop\2013-04-23\_002.xad

Created: 4/23/2013 10:21:27 AM  
 Modified: 4/23/2013 11:14:26 AM

**Electropherogram Summary Continued ...**



**Overall Results for sample 11 :**

Number of peaks found: 5                      Corr. Area 1: 541.5  
 Noise: 0.2

**Peak table for sample 11 :**

| Peak | Size [bp] | Conc. [pg/μl] | Molarity [pmol/l] | Observations |
|------|-----------|---------------|-------------------|--------------|
| 1    | 35        | 125.00        | 5,411.3           | Lower Marker |
| 2    | 495       | 118.73        | 363.1             |              |
| 3    | 571       | 166.29        | 441.6             |              |
| 4    | 586       | 34.85         | 90.1              |              |
| 5    | 606       | 32.00         | 80.0              |              |
| 6    | 630       | 202.47        | 486.7             |              |
| 7    | 10,380    | 75.00         | 10.9              | Upper Marker |

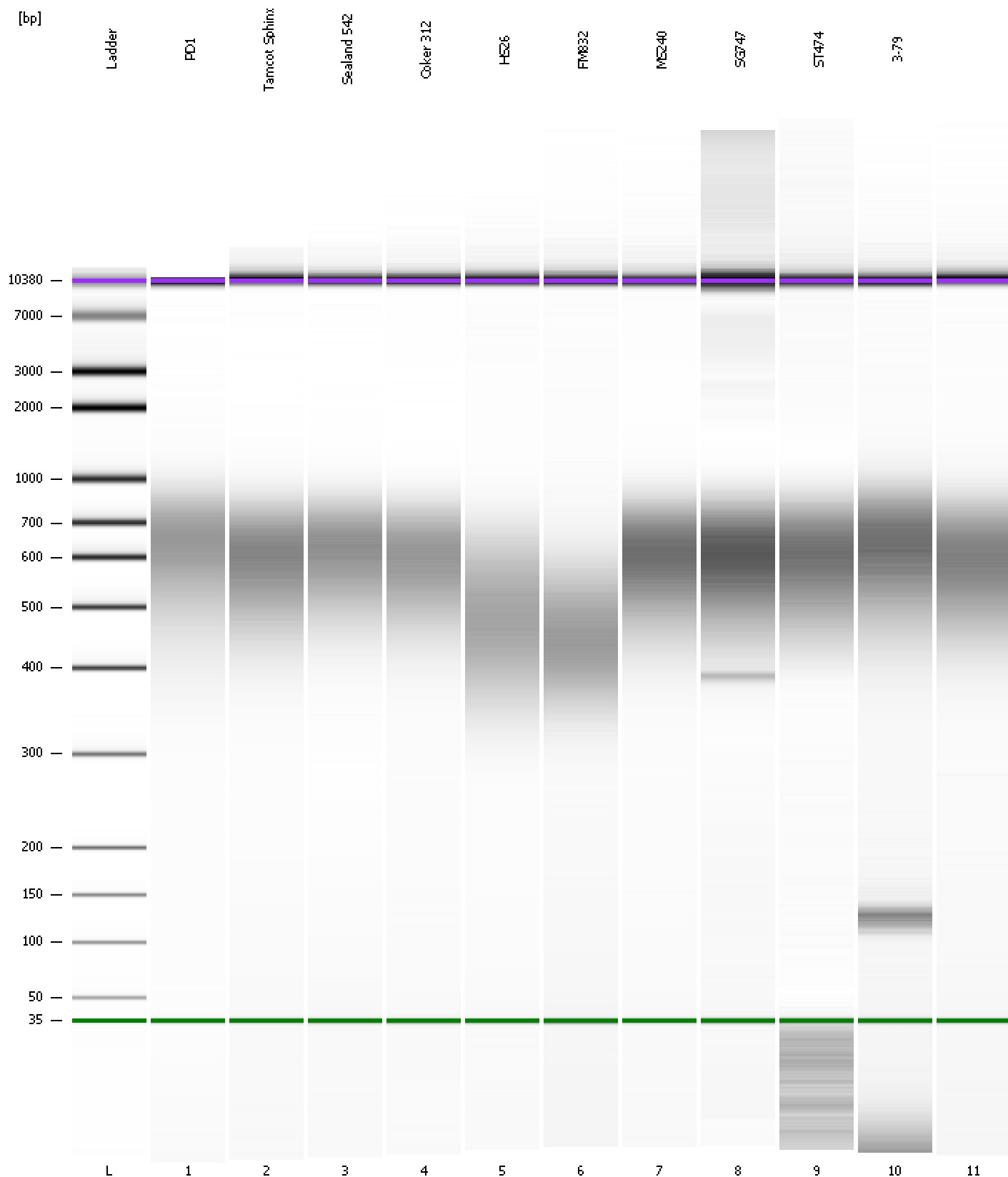
**Region table for sample 11 :**

| From [bp] | To [bp] | Average Size [bp] | Molarity [pmol/l] | Conc. [pg/μl] | % of Total | Corr. Area | Size distribution in CV [%] | Color |
|-----------|---------|-------------------|-------------------|---------------|------------|------------|-----------------------------|-------|
| 370       | 1,000   | 595               | 1,623.0           | 609.43        | 97         | 541.5      | 19.1                        | Blue  |

Assay Class: High Sensitivity DNA Assay  
Data Path: C:\Documents and Settings\ONguyen\Desktop\2013-04-23\_002.xad

Created: 4/23/2013 10:21:27 AM  
Modified: 4/23/2013 11:14:26 AM

**Gel Image**





Assay Class: High Sensitivity DNA Assay  
Data Path: C:\Documents and Settings\ONGuyen\Desktop\2013-04-23\_002.xad

Created: 4/23/2013 10:21:27 AM  
Modified: 4/23/2013 11:14:26 AM

**Curves**

**Standard Curve**

