

Assay Class: High Sensitivity DNA Assay
Data Path: C:\...ents and Settings\Bioanalyzer\2014-10-09\2014-10-09_001.xad

Created: 10/9/2014 7:22:51 AM
Modified: 10/9/2014 7:54:58 AM

Electrophoresis File Run Summary

Instrument Information:

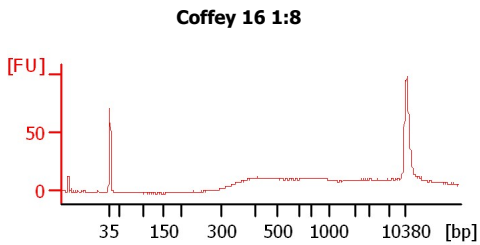
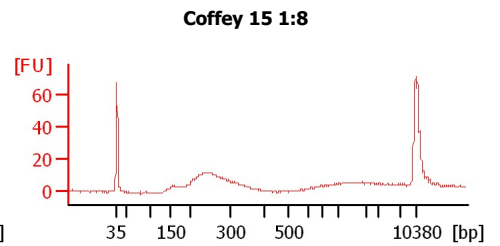
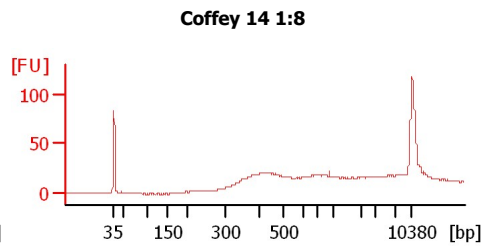
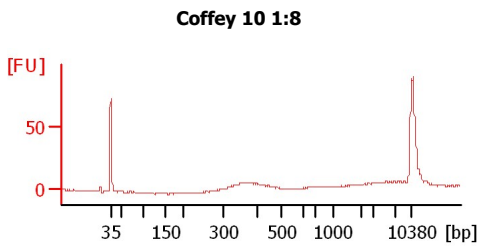
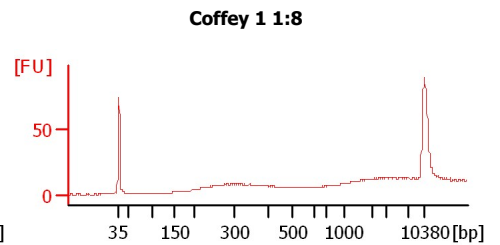
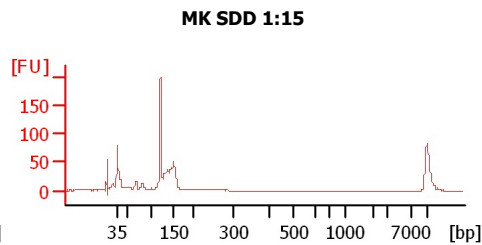
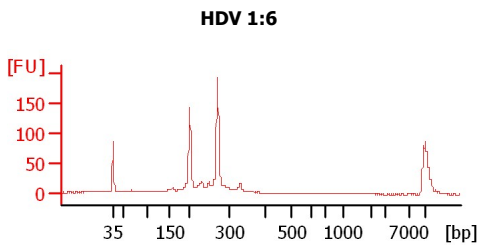
Instrument Name: DE13701086 Firmware: C.01.069
Serial#: DE13701086 Type: G2938B

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 |
|---------------|----------------|--------------------------|--------|-------------|--------------|--------------|
| HDV 1:6 | | <input type="checkbox"/> | ✓ | | | |
| MK SDD 1:15 | | <input type="checkbox"/> | ✓ | | | |
| Coffey 1 1:8 | | <input type="checkbox"/> | ✓ | | | |
| Coffey 10 1:8 | | <input type="checkbox"/> | ✓ | | | |
| Coffey 14 1:8 | | <input type="checkbox"/> | ✓ | | | |
| Coffey 15 1:8 | | <input type="checkbox"/> | ✓ | | | |
| Coffey 16 1:8 | | <input type="checkbox"/> | ✓ | | | |
| sample 8 | | <input type="checkbox"/> | | | | |
| sample 9 | | <input type="checkbox"/> | | | | |
| sample 10 | | <input type="checkbox"/> | | | | |
| sample 11 | | <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

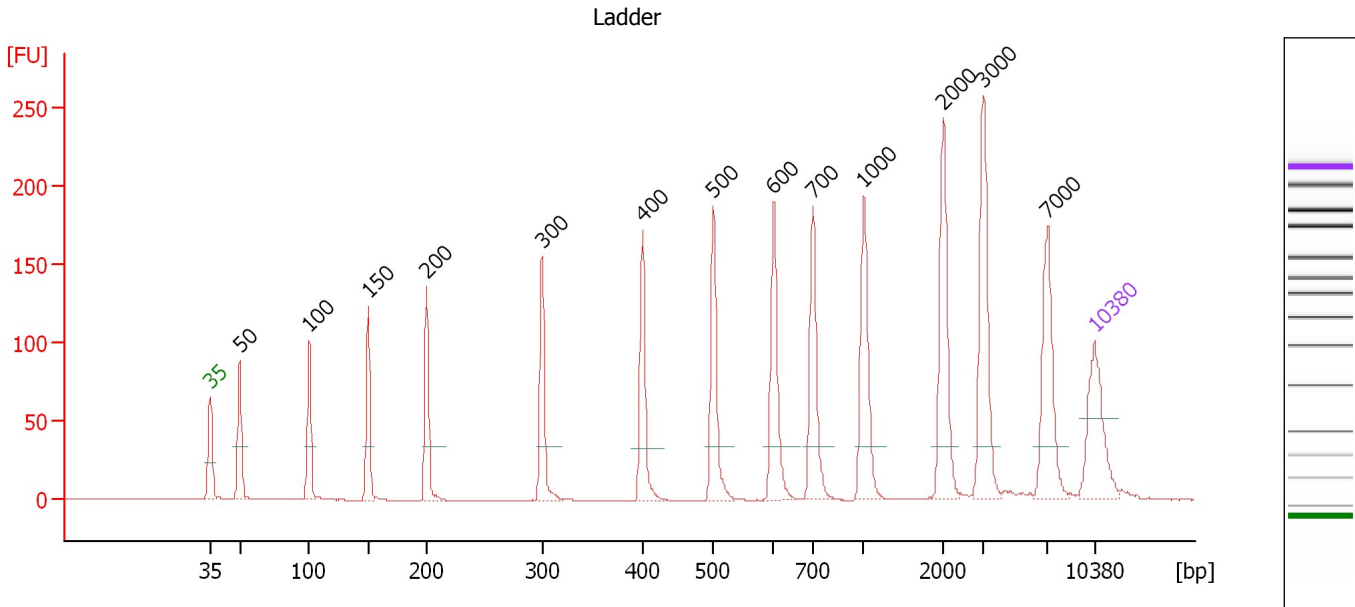
Ladder

| 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: 0.1

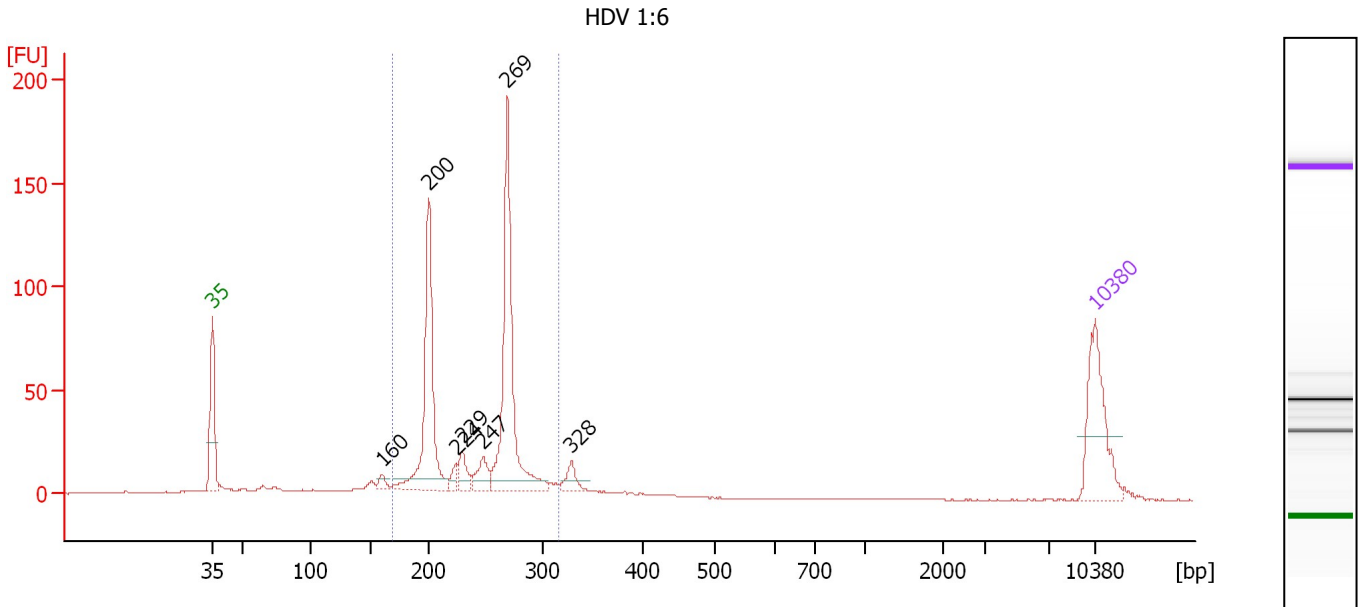
Peak table for Ladder

| 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 |

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Electropherogram Summary Continued ...



Overall Results for sample 1 : HDV 1:6

Number of peaks found: 7 Corr. Area 1: 563.4
 Noise: 0.2

Peak table for sample 1 : HDV 1:6

| Peak | Size [bp] | Conc. [pg/μl] | Molarity [pmol/l] | Observations |
|------|-----------|---------------|-------------------|--------------|
| 1 | 35 | 125.00 | 5,411.3 | Lower Marker |
| 2 | 160 | 10.16 | 96.0 | |
| 3 | 200 | 212.52 | 1,607.2 | |
| 4 | 224 | 11.28 | 76.3 | |
| 5 | 229 | 24.57 | 162.3 | |
| 6 | 247 | 28.62 | 175.3 | |
| 7 | 269 | 250.47 | 1,412.6 | |
| 8 | 328 | 19.39 | 89.6 | |
| 9 | 10,380 | 75.00 | 10.9 | Upper Marker |

Region table for sample 1 : HDV 1:6

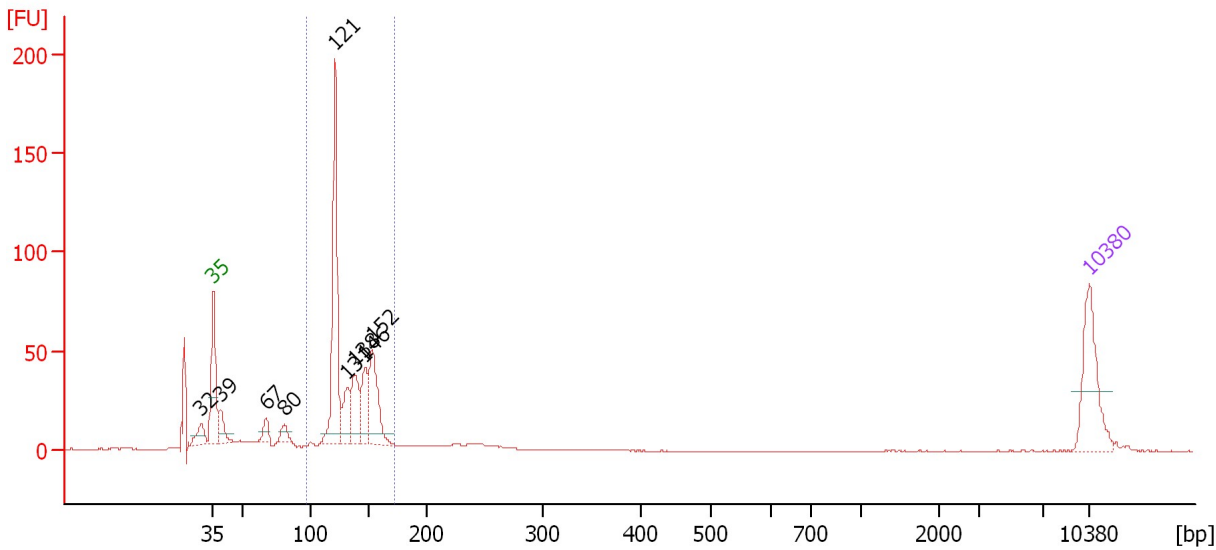
| From [bp] | Average Size [bp] | To [bp] | Corr. Area | % of Total | Size distribution in CV [%] | Conc. [pg/μl] | Molarity [pmol/l] | Color |
|-----------|-------------------|---------|------------|------------|-----------------------------|---------------|-------------------|-------|
| 169 | 241 | 315 | 563.4 | 78 | 14.6 | 593.69 | 3,794.7 | Blue |

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Electropherogram Summary Continued ...

MK SDD 1:15



Overall Results for sample 2 : MK SDD 1:15

Number of peaks found: 9 Corr. Area 1: 418.1
 Noise: 0.1

Peak table for sample 2 : MK SDD 1:15

| Peak | Size [bp] | Conc. [pg/μl] | Molarity [pmol/l] | Observations |
|------|-----------|---------------|-------------------|--------------|
| 1 | 32 | 0.00 | 0.0 | |
| 2 | 35 | 125.00 | 5,411.3 | Lower Marker |
| 3 | 39 | 31.22 | 1,217.6 | |
| 4 | 67 | 19.44 | 437.8 | |
| 5 | 80 | 19.02 | 358.2 | |
| 6 | 121 | 258.03 | 3,237.5 | |
| 7 | 131 | 53.04 | 614.5 | |
| 8 | 138 | 73.48 | 809.2 | |
| 9 | 146 | 63.34 | 656.3 | |
| 10 | 152 | 109.29 | 1,088.2 | |
| 11 | 10,380 | 75.00 | 10.9 | Upper Marker |

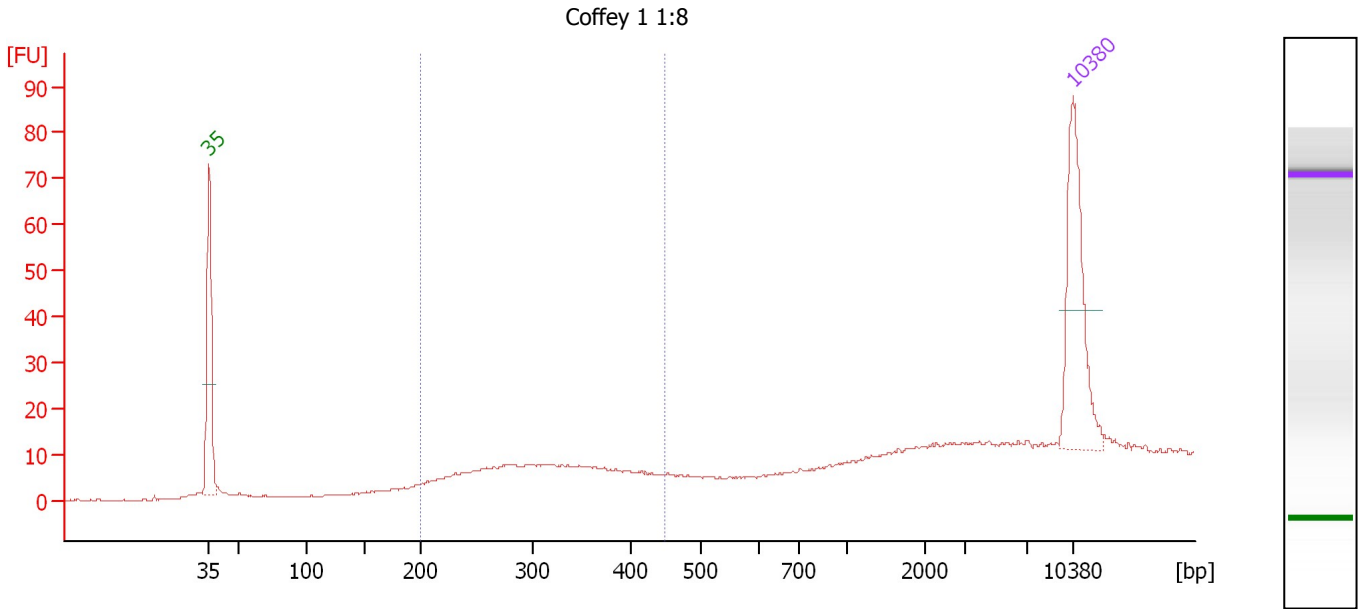
Region table for sample 2 : MK SDD 1:15

| From [bp] | Average Size [bp] | To [bp] | Corr. Area | % of Total | Size distribution in CV [%] | Conc. [pg/μl] | Molarity [pmol/l] | Color |
|-----------|-------------------|---------|------------|------------|-----------------------------|---------------|-------------------|-------|
| 97 | 134 | 172 | 418.1 | 64 | 11.2 | 621.11 | 7,107.3 | Blue |

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Electropherogram Summary Continued ...



Overall Results for sample 3 : Coffey 1 1:8

Number of peaks found: 0 Corr. Area 1: 64.6
 Noise: 0.2

Peak table for sample 3 : Coffey 1 1:8

| Peak | Size [bp] | Conc. [pg/μl] | Molarity [pmol/l] | Observations |
|------|-----------|---------------|-------------------|--------------|
| 1 | 35 | 125.00 | 5,411.3 | Lower Marker |
| 2 | 10,380 | 75.00 | 10.9 | Upper Marker |

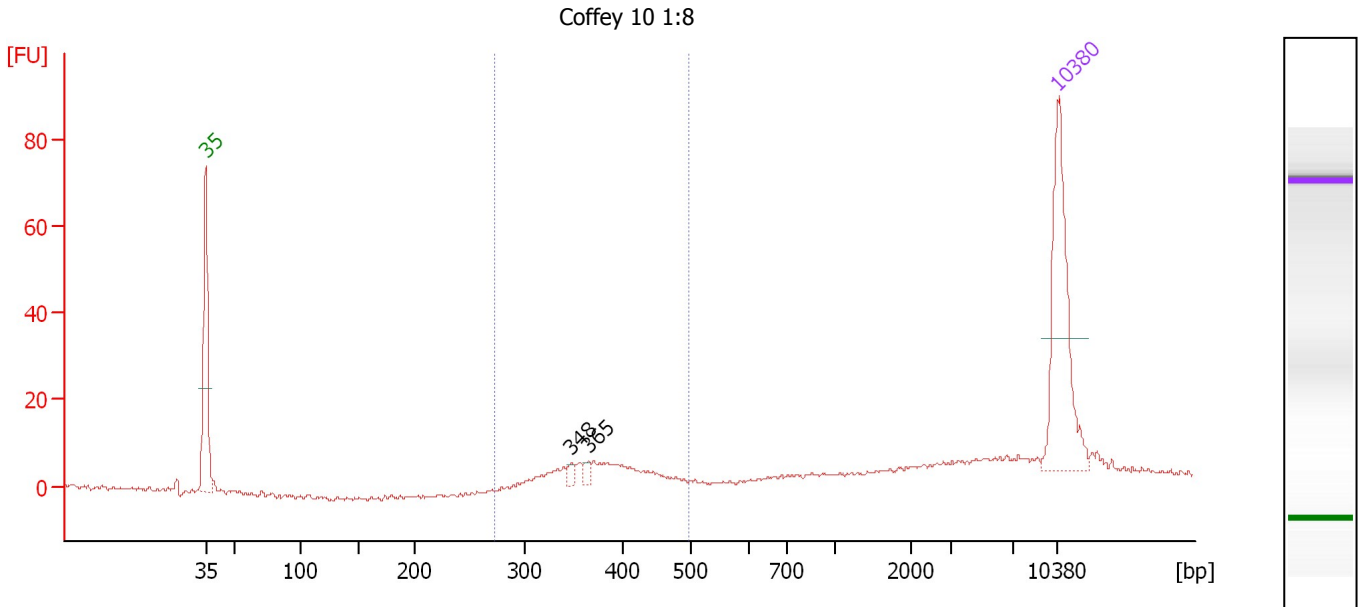
Region table for sample 3 : Coffey 1 1:8

| From [bp] | Average Size [bp] | To [bp] | Corr. Area | % of Total | Size distribution in CV [%] | Conc. [pg/μl] | Molarity [pmol/l] | Color |
|-----------|-------------------|---------|------------|------------|-----------------------------|---------------|-------------------|-------|
| 200 | 302 | 447 | 64.6 | 49 | 16.9 | 74.51 | 386.9 | Blue |

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 Data Path: C:\...ents and Settings\Bioanalyzer\2014-10-09\2014-10-09_001.xad

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Electropherogram Summary Continued ...



Overall Results for sample 4 : Coffey 10 1:8

Number of peaks found: 2 Corr. Area 1: 35.1
 Noise: 0.4

Peak table for sample 4 : Coffey 10 1:8

| Peak | Size [bp] | Conc. [pg/μl] | Molarity [pmol/l] | Observations |
|------|-----------|---------------|-------------------|--------------|
| 1 | 35 | 125.00 | 5,411.3 | Lower Marker |
| 2 | 348 | 4.66 | 20.3 | |
| 3 | 365 | 4.99 | 20.7 | |
| 4 | 10,380 | 75.00 | 10.9 | Upper Marker |

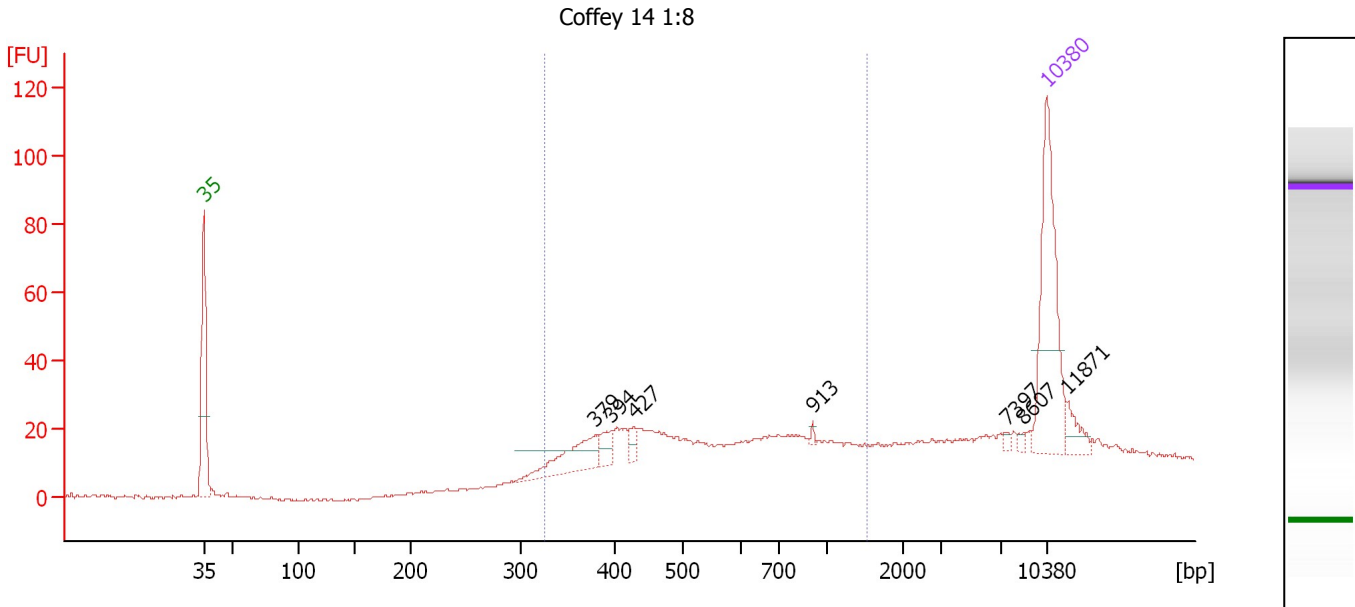
Region table for sample 4 : Coffey 10 1:8

| From [bp] | Average Size [bp] | To [bp] | Corr. Area | % of Total | Size distribution in CV [%] | Conc. [pg/μl] | Molarity [pmol/l] | Color |
|-----------|-------------------|---------|------------|------------|-----------------------------|---------------|-------------------|-------|
| 273 | 376 | 499 | 35.1 | 44 | 8.8 | 34.06 | 138.1 | Blue |

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 Data Path: C:\...ents and Settings\Bioanalyzer\2014-10-09\2014-10-09_001.xad

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Electropherogram Summary Continued ...



Overall Results for sample 5 : Coffey 14 1:8

Number of peaks found: 7 Corr. Area 1: 334.9
 Noise: 0.4

Peak table for sample 5 : Coffey 14 1:8

| Peak | Size [bp] | Conc. [pg/μl] | Molarity [pmol/l] | Observations |
|------|-----------|---------------|-------------------|--------------|
| 1 | 35 | 125.00 | 5,411.3 | Lower Marker |
| 2 | 379 | 39.58 | 158.3 | |
| 3 | 394 | 12.90 | 49.6 | |
| 4 | 427 | 7.61 | 27.0 | |
| 5 | 913 | 1.33 | 2.2 | |
| 6 | 7,397 | 2.13 | 0.4 | |
| 7 | 8,607 | 1.83 | 0.3 | |
| 8 | 10,380 | 75.00 | 10.9 | Upper Marker |
| 9 | 11,871 | 0.00 | 0.0 | |

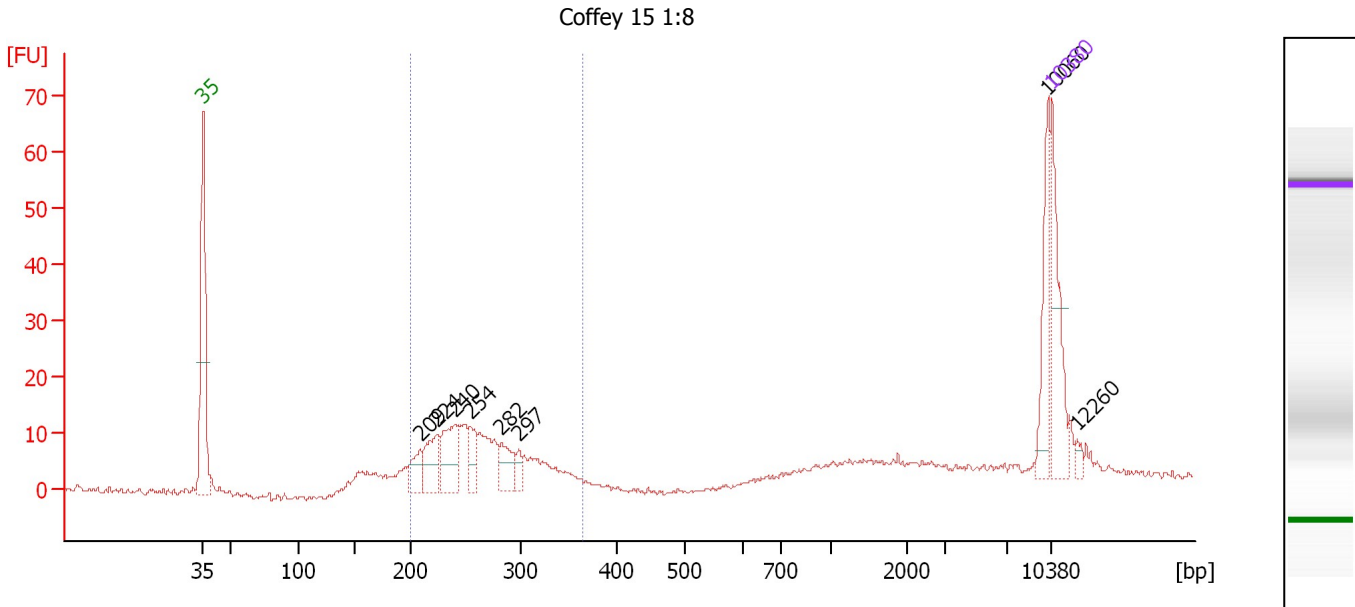
Region table for sample 5 : Coffey 14 1:8

| From [bp] | Average Size [bp] | To [bp] | Corr. Area | % of Total | Size distribution in CV [%] | Conc. [pg/μl] | Molarity [pmol/l] | Color |
|-----------|-------------------|---------|------------|------------|-----------------------------|---------------|-------------------|-------|
| 326 | 602 | 1,536 | 334.9 | 70 | 44.2 | 257.82 | 782.6 | Blue |

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 Data Path: C:\...ents and Settings\Bioanalyzer\2014-10-09\2014-10-09_001.xad

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Electropherogram Summary Continued ...



Overall Results for sample 6 : Coffey 15 1:8

Number of peaks found: 8 Corr. Area 1: 142.9
 Noise: 0.4

Peak table for sample 6 : Coffey 15 1:8

| Peak | Size [bp] | Conc. [pg/μl] | Molarity [pmol/l] | Observations |
|------|-----------|---------------|-------------------|--------------|
| 1 | 35 | 125.00 | 5,411.3 | Lower Marker |
| 2 | 209 | 35.57 | 258.2 | |
| 3 | 224 | 52.39 | 355.0 | |
| 4 | 240 | 70.05 | 441.5 | |
| 5 | 254 | 34.42 | 205.4 | |
| 6 | 282 | 39.57 | 212.5 | |
| 7 | 297 | 14.39 | 73.3 | |
| 8 | 10,060 | 59.71 | 9.0 | |
| 9 | 10,380 | 75.00 | 10.9 | Upper Marker |
| 10 | 12,260 | 0.00 | 0.0 | |

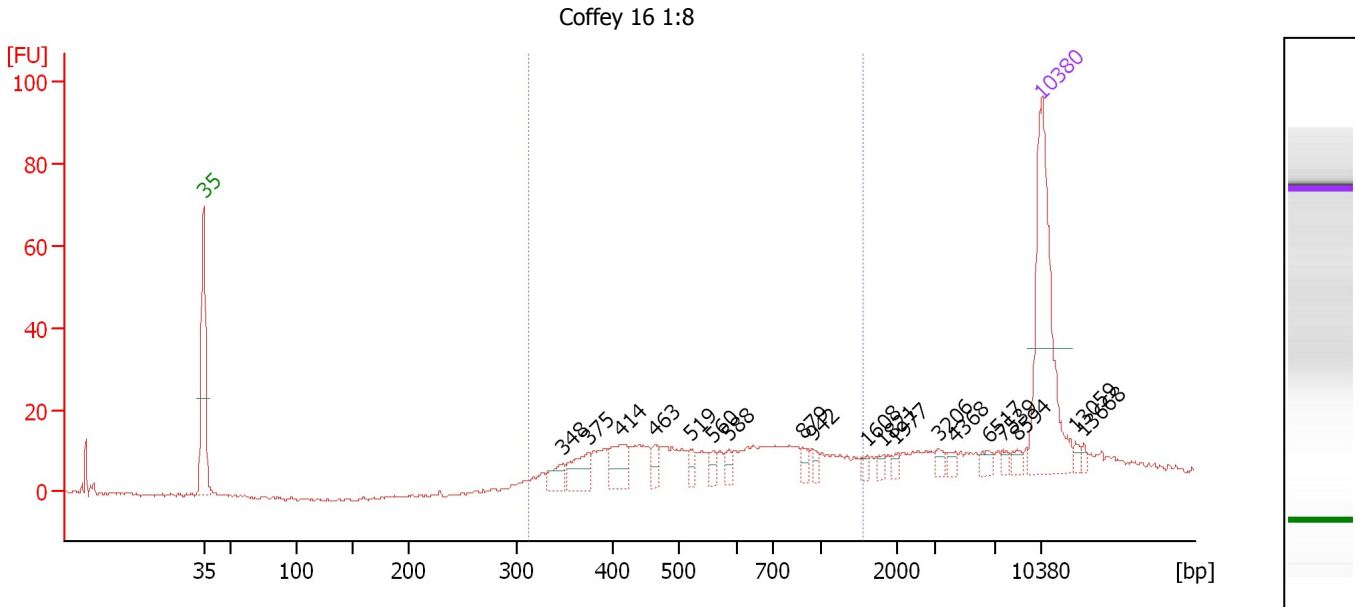
Region table for sample 6 : Coffey 15 1:8

| From [bp] | Average Size [bp] | To [bp] | Corr. Area | % of Total | Size distribution in CV [%] | Conc. [pg/μl] | Molarity [pmol/l] | Color |
|-----------|-------------------|---------|------------|------------|-----------------------------|---------------|-------------------|-------|
| 200 | 262 | 363 | 142.9 | 53 | 14.2 | 361.59 | 2,126.4 | Blue |

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 Data Path: C:\...ents and Settings\Bioanalyzer\2014-10-09\2014-10-09_001.xad

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Electropherogram Summary Continued ...



Overall Results for sample 7 : Coffey 16 1:8

Number of peaks found: 19 Corr. Area 1: 224.1
 Noise: 0.4

Peak table for sample 7 : Coffey 16 1:8

| Peak | Size [bp] | Conc. [pg/μl] | Molarity [pmol/l] | Observations |
|------|-----------|---------------|-------------------|--------------|
| 1 | 35 | 125.00 | 5,411.3 | Lower Marker |
| 2 | 348 | 12.12 | 52.8 | |
| 3 | 375 | 19.31 | 78.0 | |
| 4 | 414 | 19.62 | 71.8 | |
| 5 | 463 | 6.94 | 22.7 | |
| 6 | 519 | 5.66 | 16.5 | |
| 7 | 560 | 5.00 | 13.5 | |
| 8 | 588 | 5.12 | 13.2 | |
| 9 | 879 | 4.28 | 7.4 | |
| 10 | 942 | 3.80 | 6.1 | |
| 11 | 1,608 | 2.97 | 2.8 | |
| 12 | 1,821 | 2.92 | 2.4 | |
| 13 | 1,977 | 2.24 | 1.7 | |
| 14 | 3,206 | 3.82 | 1.8 | |
| 15 | 4,368 | 3.62 | 1.3 | |
| 16 | 6,517 | 4.07 | 0.9 | |
| 17 | 7,539 | 2.77 | 0.6 | |
| 18 | 8,594 | 3.56 | 0.6 | |
| 19 | 10,380 | 75.00 | 10.9 | Upper Marker |
| 20 | 13,059 | 0.00 | 0.0 | |
| 21 | 13,668 | 0.00 | 0.0 | |

Region table for sample 7 : Coffey 16 1:8

| From [bp] | Average Size [bp] | To [bp] | Corr. Area | % of Total | Size distribution in CV [%] | Conc. [pg/μl] | Molarity [pmol/l] | Color |
|-----------|-------------------|---------|------------|------------|-----------------------------|---------------|-------------------|-------|
| 311 | 617 | 1,542 | 224.1 | 68 | 43.0 | 183.62 | 541.9 | Blue |

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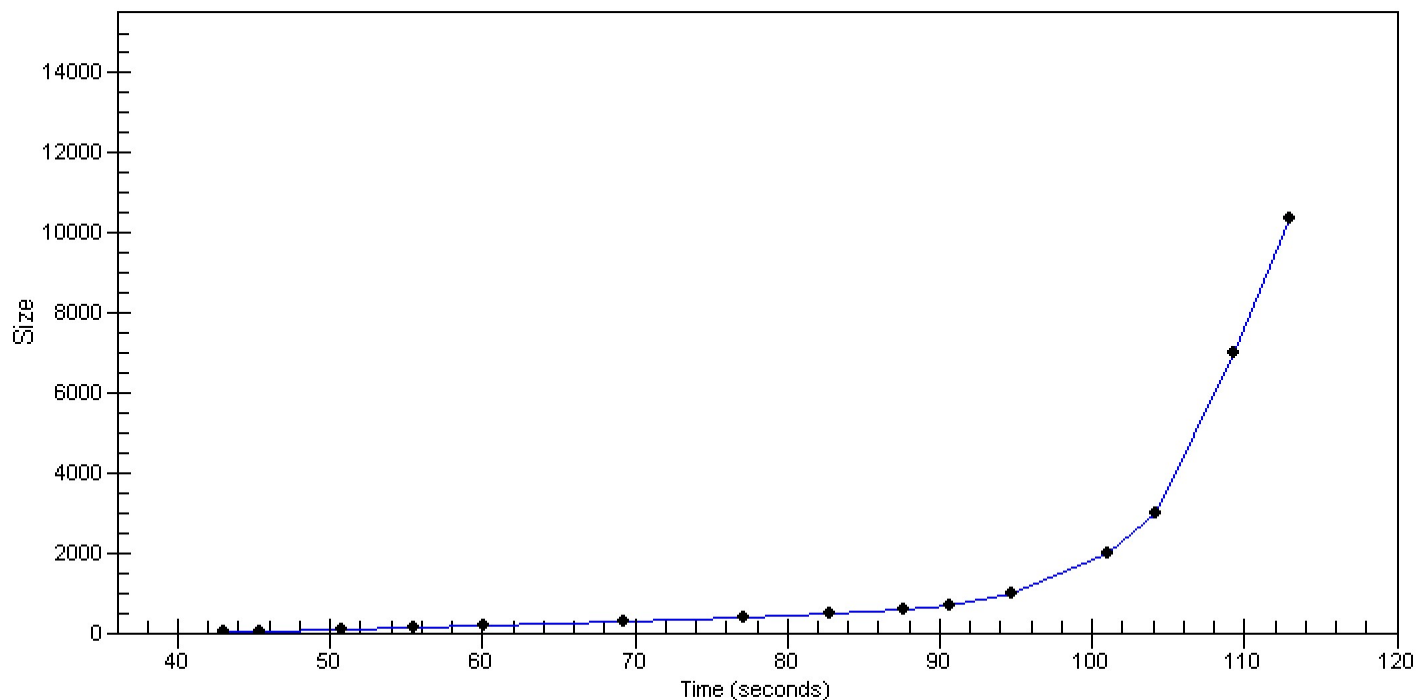
Gel Image

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Curves

Standard Curve



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Created: 10/9/2014 7:22:51 AM
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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.

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 Data Path: C:\...ents and Settings\Bioanalyzer\2014-10-09\2014-10-09_001.xad

Created: 10/9/2014 7:22:51 AM
 Modified: 10/9/2014 7:54:58 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 | | 10/9/2014 7:52:43 AM | (GMT --07:00) Pacific Standard Time | UC Davis | D8XSMGH1 |
| Run started on port 1 (File: C:\Documents and Settings\Bioanalyzer\2014-10-09\2014-10-09_001.xad) | | Instrument | Run | | 10/9/2014 7:22:56 AM | (GMT --07:00) Pacific Standard Time | UC Davis | D8XSMGH1 |
| Product Number : G2938B | | Instrument | Run | | 10/9/2014 7:22:56 AM | (GMT --07:00) Pacific Standard Time | UC Davis | D8XSMGH1 |
| Name : | | Instrument | Run | | 10/9/2014 7:22:56 AM | (GMT --07:00) Pacific Standard Time | UC Davis | D8XSMGH1 |
| Vendor : Agilent Technologies | | Instrument | Run | | 10/9/2014 7:22:56 AM | (GMT --07:00) Pacific Standard Time | UC Davis | D8XSMGH1 |
| Serial# : DE13701086 | | Instrument | Run | | 10/9/2014 7:22:56 AM | (GMT --07:00) Pacific Standard Time | UC Davis | D8XSMGH1 |
| Firmware : C.01.069 | | Instrument | Run | | 10/9/2014 7:22:56 AM | (GMT --07:00) Pacific Standard Time | UC Davis | D8XSMGH1 |
| Cartridge : Electrode | | Instrument | Run | | 10/9/2014 7:22:56 AM | (GMT --07:00) Pacific Standard Time | UC Davis | D8XSMGH1 |