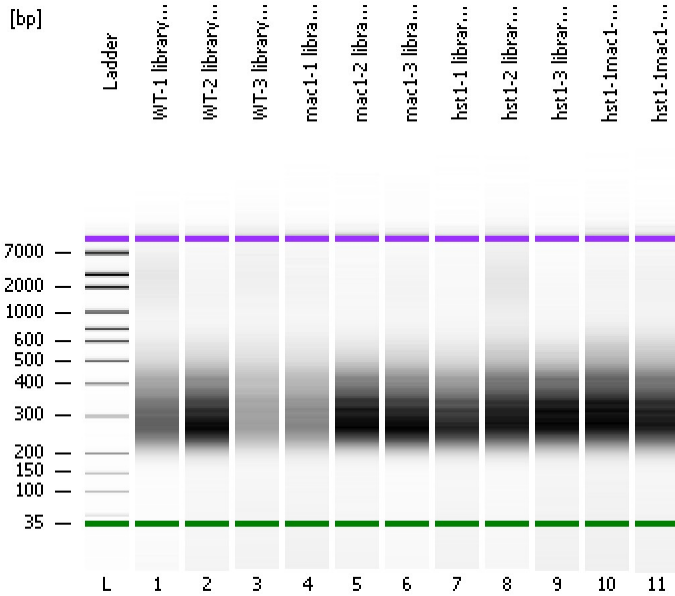


Assay Class: High Sensitivity DNA Assay
Data Path: C:\... bioanalyzer\2100 expert\data\2017-05-15\2017-05-15_001.xad

Created: 5/15/2017 10:16:04 AM
Modified: 5/15/2017 10:57:57 AM

Electrophoresis File Run Summary



Instrument Information:

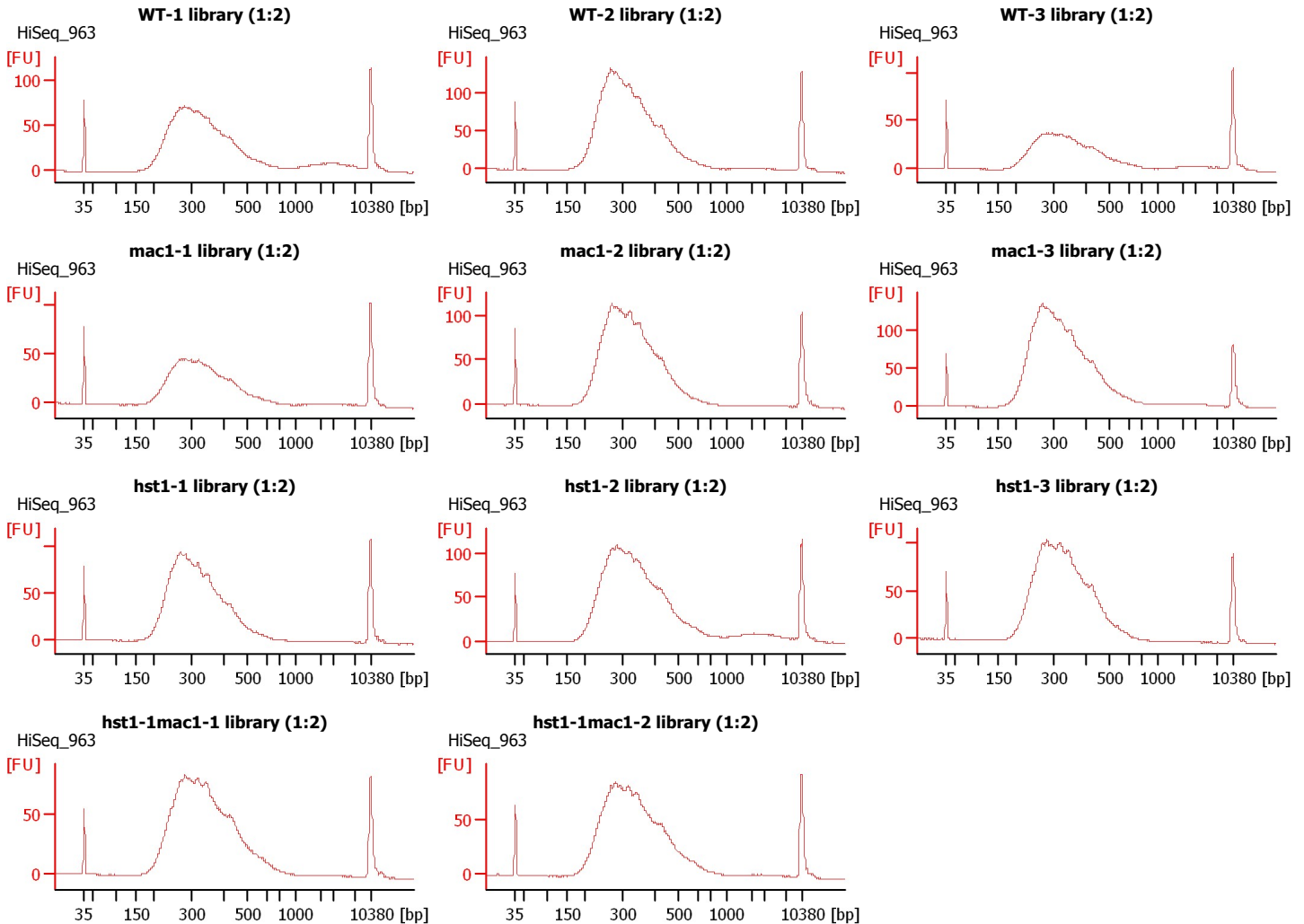
Instrument Name: DE13701086 Firmware: C.01.069
Serial#: DE13701086 Type: G2938B

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:



Assay Class: High Sensitivity DNA Assay
 Data Path: C:\... bioanalyzer\2100 expert\data\2017-05-15\2017-05-15_001.xad

Created: 5/15/2017 10:16:04 AM
 Modified: 5/15/2017 10:57:57 AM

Electrophoresis File Run Summary (Chip Summary)

| Sample Name | Sample Comment | Rest. Digest | Status | Observation | Result Label | Result Color |
|----------------------------|----------------|--------------------------|--------|-------------|--------------|--------------|
| WT-1 library (1:2) | HiSeq_963 | <input type="checkbox"/> | ✓ | | | |
| WT-2 library (1:2) | HiSeq_963 | <input type="checkbox"/> | ✓ | | | |
| WT-3 library (1:2) | HiSeq_963 | <input type="checkbox"/> | ✓ | | | |
| mac1-1 library (1:2) | HiSeq_963 | <input type="checkbox"/> | ✓ | | | |
| mac1-2 library (1:2) | HiSeq_963 | <input type="checkbox"/> | ✓ | | | |
| mac1-3 library (1:2) | HiSeq_963 | <input type="checkbox"/> | ✓ | | | |
| hst1-1 library (1:2) | HiSeq_963 | <input type="checkbox"/> | ✓ | | | |
| hst1-2 library (1:2) | HiSeq_963 | <input type="checkbox"/> | ✓ | | | |
| hst1-3 library (1:2) | HiSeq_963 | <input type="checkbox"/> | ✓ | | | |
| hst1-1mac1-1 library (1:2) | HiSeq_963 | <input type="checkbox"/> | ✓ | | | |
| hst1-1mac1-2 library (1:2) | HiSeq_963 | <input type="checkbox"/> | ✓ | | | |
| Ladder | | <input type="checkbox"/> | ✓ | | | |

Chip Lot #

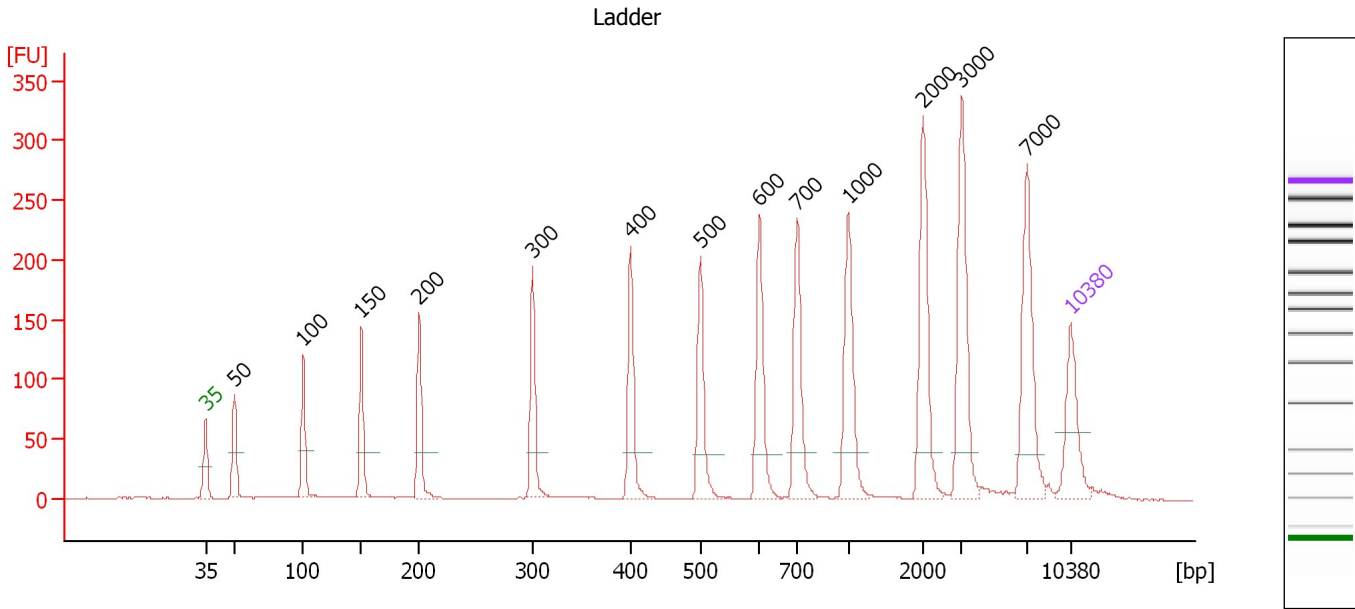
Reagent Kit Lot #

Chip Comments :

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\... bioanalyzer\2100 expert\data\2017-05-15\2017-05-15_001.xad

Created: 5/15/2017 10:16:04 AM
 Modified: 5/15/2017 10:57:57 AM

Electropherogram Summary



Overall Results for Ladder

Noise: 0.2

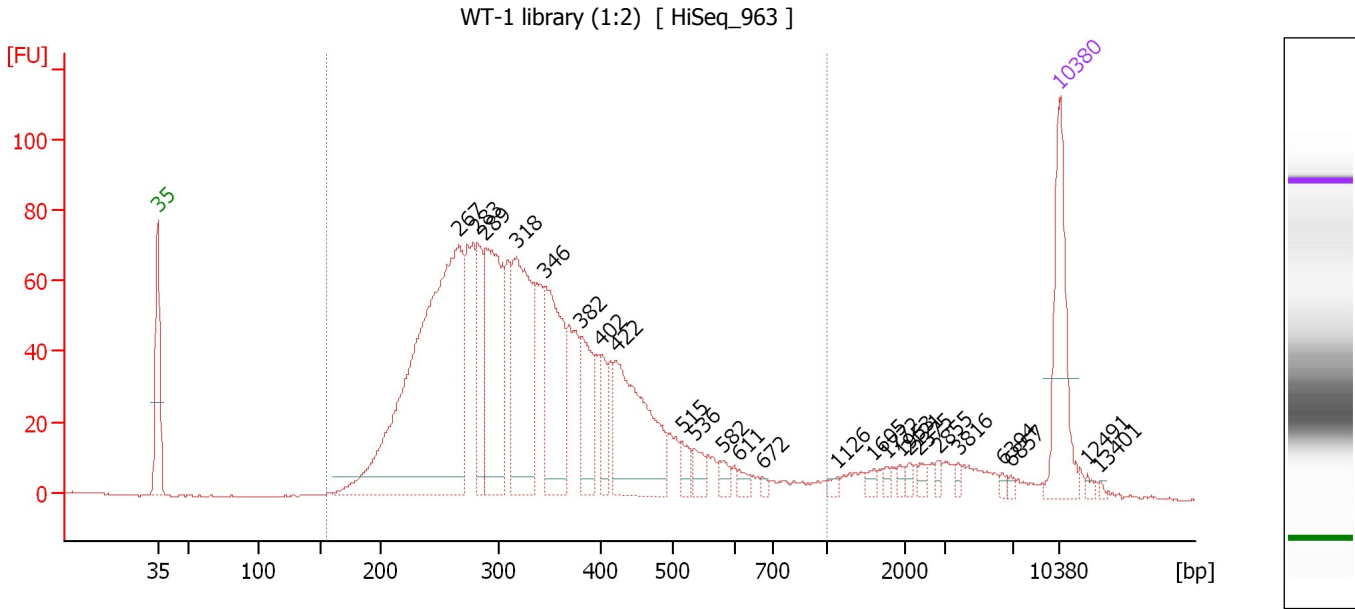
Peak table for Ladder

| 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 | 45.33 |
| 3 | 100 | 150.00 | 2,272.7 | Ladder Peak | 50.89 |
| 4 | 150 | 150.00 | 1,515.2 | Ladder Peak | 55.59 |
| 5 | 200 | 150.00 | 1,136.4 | Ladder Peak | 60.25 |
| 6 | 300 | 150.00 | 757.6 | Ladder Peak | 69.44 |
| 7 | 400 | 150.00 | 568.2 | Ladder Peak | 77.37 |
| 8 | 500 | 150.00 | 454.5 | Ladder Peak | 83.02 |
| 9 | 600 | 150.00 | 378.8 | Ladder Peak | 87.81 |
| 10 | 700 | 150.00 | 324.7 | Ladder Peak | 90.83 |
| 11 | 1,000 | 150.00 | 227.3 | Ladder Peak | 94.97 |
| 12 | 2,000 | 150.00 | 113.6 | Ladder Peak | 101.01 |
| 13 | 3,000 | 150.00 | 75.8 | Ladder Peak | 104.12 |
| 14 | 7,000 | 150.00 | 32.5 | Ladder Peak | 109.42 |
| 15 | 10,380 | 75.00 | 10.9 | Upper Marker | 113.00 |

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\... bioanalyzer\2100 expert\data\2017-05-15\2017-05-15_001.xad

Created: 5/15/2017 10:16:04 AM
 Modified: 5/15/2017 10:57:57 AM

Electropherogram Summary Continued ...



Overall Results for sample 1 : WT-1 library (1:2)

Number of peaks found: 25 Corr. Area 1: 1,758.1
 Noise: 0.2

Peak table for sample 1 : WT-1 library (1:2)

| 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 | 267 | 572.64 | 3,249.6 | | 66.41 |
| 3 | 283 | 70.30 | 376.7 | | 67.85 |
| 4 | 289 | 189.95 | 994.4 | | 68.47 |
| 5 | 318 | 180.21 | 858.3 | | 70.88 |
| 6 | 346 | 138.82 | 608.4 | | 73.07 |
| 7 | 382 | 64.32 | 255.4 | | 75.92 |
| 8 | 402 | 31.66 | 119.3 | | 77.50 |
| 9 | 422 | 155.13 | 557.6 | | 78.59 |
| 10 | 515 | 15.15 | 44.6 | | 83.72 |
| 11 | 536 | 15.12 | 42.8 | | 84.73 |
| 12 | 582 | 10.00 | 26.0 | | 86.96 |
| 13 | 611 | 6.94 | 17.2 | | 88.15 |
| 14 | 672 | 4.03 | 9.1 | | 89.99 |
| 15 | 1,126 | 4.33 | 5.8 | | 95.73 |
| 16 | 1,605 | 4.96 | 4.7 | | 98.62 |
| 17 | 1,772 | 3.72 | 3.2 | | 99.63 |
| 18 | 1,953 | 4.35 | 3.4 | | 100.73 |
| 19 | 2,121 | 3.97 | 2.8 | | 101.38 |
| 20 | 2,375 | 4.56 | 2.9 | | 102.17 |
| 21 | 2,855 | 4.17 | 2.2 | | 103.66 |
| 22 | 3,816 | 3.89 | 1.5 | | 105.20 |
| 23 | 6,394 | 2.67 | 0.6 | | 108.62 |
| 24 | 6,857 | 2.56 | 0.6 | | 109.23 |
| 25 | 10,380 | 75.00 | 10.9 | Upper Marker | 113.00 |

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\... bioanalyzer\2100 expert\data\2017-05-15\2017-05-15_001.xad

Created: 5/15/2017 10:16:04 AM
 Modified: 5/15/2017 10:57:57 AM

Electropherogram Summary Continued ...

... Peak table for sample 1 : WT-1 library (1:2)

| Peak | Size [bp] | Conc. [pg/ μ l] | Molarity [pmol/l] | Observations | Aligned Migration Time [s] |
|------|-----------|---------------------|-------------------|--------------|----------------------------|
| 26 | 12,491 | 0.00 | 0.0 | | 115.24 |
| 27 | 13,401 | 0.00 | 0.0 | | 116.20 |

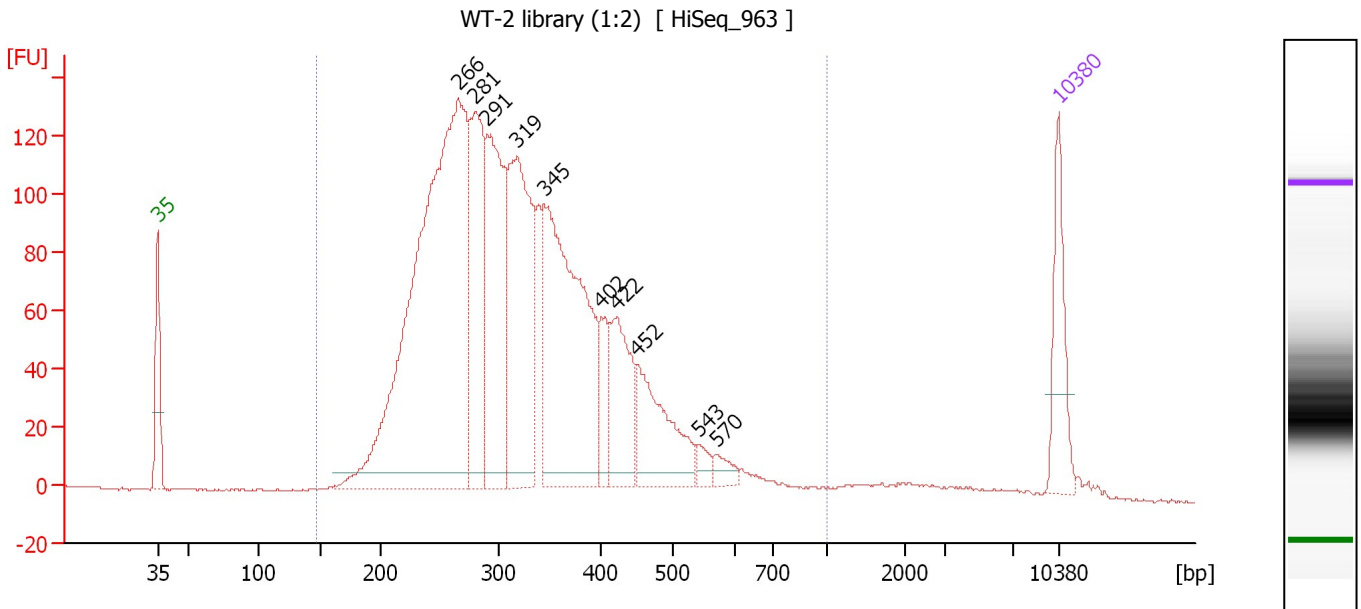
Region table for sample 1 : WT-1 library (1:2)

| From [bp] | To [bp] | Average Size [bp] | Corr. Area | Molarity [pmol/l] | Co Conc. lor [pg/ μ l] | % of Total | Size distribution in CV [%] |
|-----------|---------|-------------------|------------|-------------------|----------------------------|------------|-----------------------------|
| 156 | 1,000 | 344 | 1,758.1 | 9,392.9 | 1,904.51 | 92 | 32.6 |

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\... bioanalyzer\2100 expert\data\2017-05-15\2017-05-15_001.xad

Created: 5/15/2017 10:16:04 AM
 Modified: 5/15/2017 10:57:57 AM

Electropherogram Summary Continued ...



Overall Results for sample 2 : WT-2 library (1:2)

Number of peaks found: 10 Corr. Area 1: 2,931.8
 Noise: 0.4

Peak table for sample 2 : WT-2 library (1:2)

| 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 | 1,066.73 | 6,068.0 | | 66.35 |
| 3 | 281 | 264.44 | 1,425.9 | | 67.69 |
| 4 | 291 | 321.10 | 1,673.3 | | 68.59 |
| 5 | 319 | 354.40 | 1,682.1 | | 70.96 |
| 6 | 345 | 485.86 | 2,132.5 | | 73.03 |
| 7 | 402 | 55.18 | 208.2 | | 77.46 |
| 8 | 422 | 129.18 | 463.6 | | 78.63 |
| 9 | 452 | 144.47 | 484.8 | | 80.29 |
| 10 | 543 | 16.47 | 46.0 | | 85.08 |
| 11 | 570 | 18.43 | 49.0 | | 86.38 |
| 12 | 10,380 | 75.00 | 10.9 | Upper Marker | 113.00 |

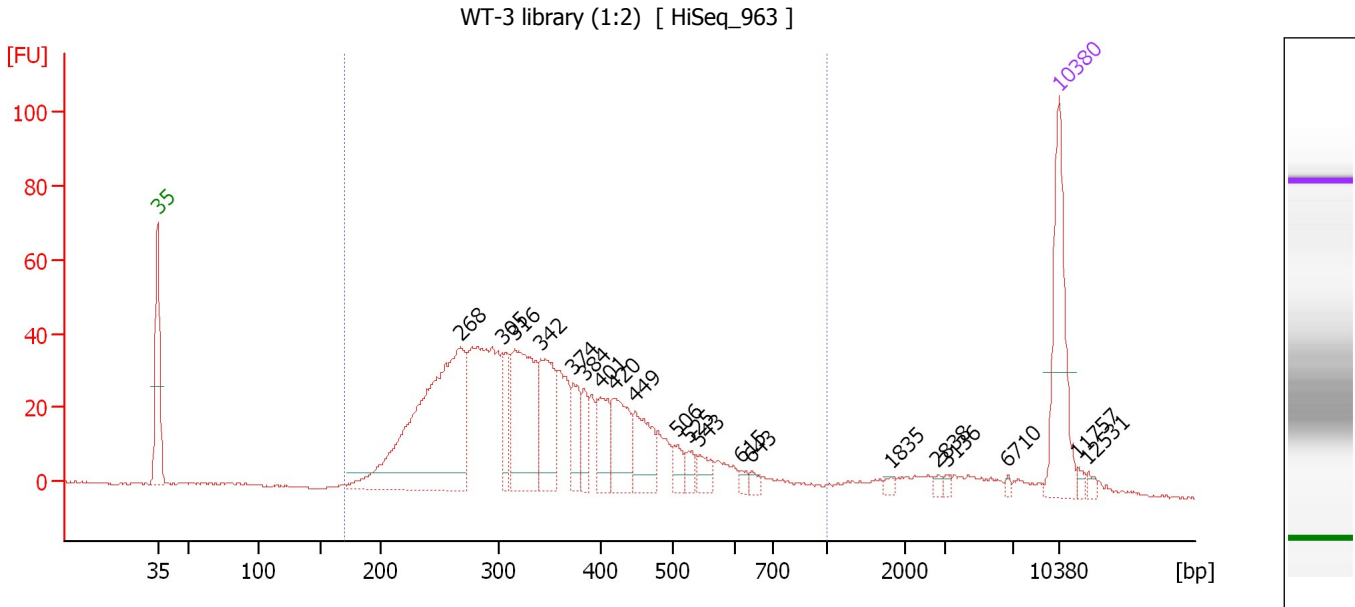
Region table for sample 2 : WT-2 library (1:2)

| From [bp] | To [bp] | Average Size [bp] | Corr. Area | Molarity [pmol/l] | Co Conc. lor [pg/μl] | % of Total | Size distribution in CV [%] |
|-----------|---------|-------------------|------------|-------------------|----------------------|------------|-----------------------------|
| 147 | 1,000 | 331 | 2,931.8 | 15,296.7 | 3,044.04 | 98 | 29.0 |

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\... bioanalyzer\2100 expert\data\2017-05-15\2017-05-15_001.xad

Created: 5/15/2017 10:16:04 AM
 Modified: 5/15/2017 10:57:57 AM

Electropherogram Summary Continued ...



Overall Results for sample 3 : WT-3 library (1:2)

Number of peaks found: 20 Corr. Area 1: 1,000.4
 Noise: 0.3

Peak table for sample 3 : WT-3 library (1:2)

| 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 | 268 | 322.85 | 1,827.4 | | 66.47 |
| 3 | 305 | 38.14 | 189.8 | | 69.80 |
| 4 | 316 | 129.66 | 621.7 | | 70.71 |
| 5 | 342 | 78.12 | 346.3 | | 72.76 |
| 6 | 374 | 32.30 | 130.8 | | 75.31 |
| 7 | 384 | 22.94 | 90.4 | | 76.13 |
| 8 | 401 | 38.18 | 144.4 | | 77.41 |
| 9 | 420 | 53.33 | 192.4 | | 78.50 |
| 10 | 449 | 48.25 | 162.8 | | 80.14 |
| 11 | 506 | 13.39 | 40.1 | | 83.33 |
| 12 | 525 | 11.18 | 32.2 | | 84.24 |
| 13 | 543 | 15.73 | 43.9 | | 85.06 |
| 14 | 615 | 5.23 | 12.9 | | 88.25 |
| 15 | 643 | 5.27 | 12.4 | | 89.12 |
| 16 | 1,835 | 3.23 | 2.7 | | 100.01 |
| 17 | 2,838 | 3.43 | 1.8 | | 103.61 |
| 18 | 3,136 | 2.53 | 1.2 | | 104.30 |
| 19 | 6,710 | 2.05 | 0.5 | | 109.04 |
| 20 | 10,380 | 75.00 | 10.9 | Upper Marker | 113.00 |
| 21 | 11,757 | 0.00 | 0.0 | | 114.46 |
| 22 | 12,531 | 0.00 | 0.0 | | 115.28 |

Assay Class: High Sensitivity DNA Assay
Data Path: C:\... bioanalyzer\2100 expert\data\2017-05-15\2017-05-15_001.xad

Created: 5/15/2017 10:16:04 AM
Modified: 5/15/2017 10:57:57 AM

Electropherogram Summary Continued ...

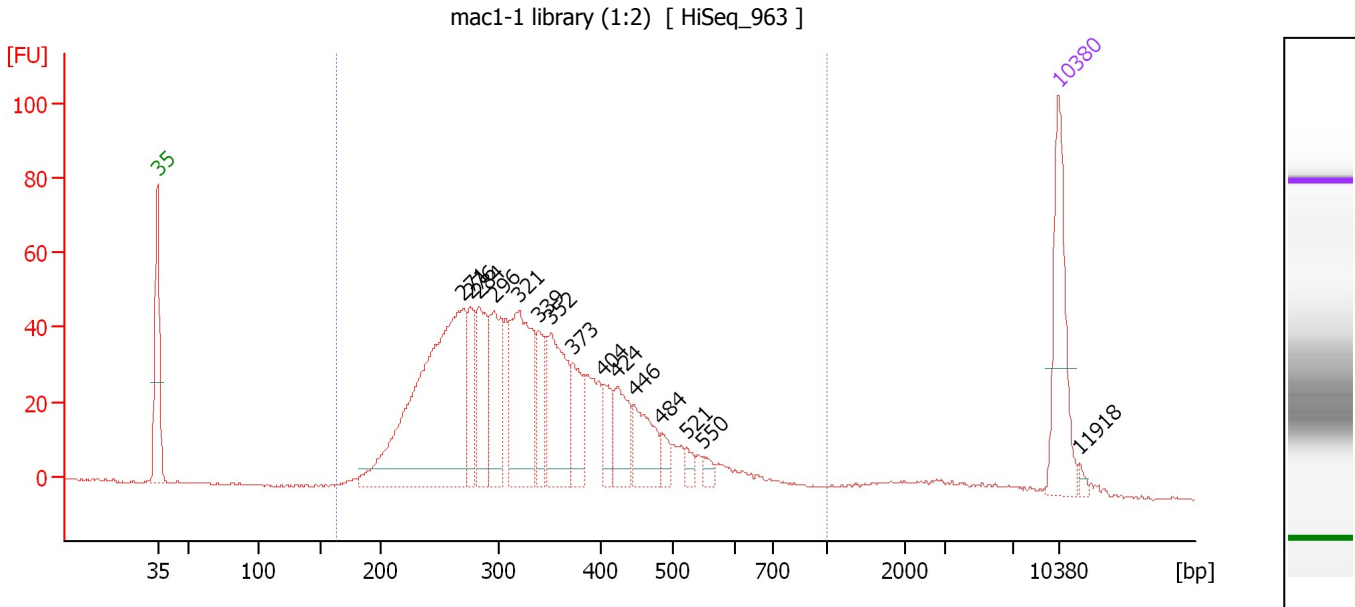
... Region table for sample 3 : WT-3 library (1:2)

| From [bp] | To [bp] | Average Size [bp] | Corr. Area | Molarity [pmol/l] | Co Conc. lor [pg/μl] | % of Total | Size distribution in CV [%] |
|-----------|---------|-------------------|------------|-------------------|----------------------|------------|-----------------------------|
| 171 | 1,000 | 357 | 1,000.4 | 5,386.0 | ■ 1,128.66 | 92 | 32.2 |

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\... bioanalyzer\2100 expert\data\2017-05-15\2017-05-15_001.xad

Created: 5/15/2017 10:16:04 AM
 Modified: 5/15/2017 10:57:57 AM

Electropherogram Summary Continued ...



Overall Results for sample 4 : mac1-1 library (1:2)

Number of peaks found: 15 Corr. Area 1: 1,149.5
 Noise: 0.3

Peak table for sample 4 : mac1-1 library (1:2)

| 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 | 271 | 396.34 | 2,219.3 | | 66.74 |
| 3 | 276 | 53.59 | 294.0 | | 67.25 |
| 4 | 284 | 83.67 | 446.0 | | 67.99 |
| 5 | 296 | 86.90 | 444.2 | | 69.11 |
| 6 | 321 | 151.25 | 713.7 | | 71.11 |
| 7 | 339 | 45.79 | 204.5 | | 72.55 |
| 8 | 352 | 108.12 | 465.2 | | 73.58 |
| 9 | 373 | 49.82 | 202.2 | | 75.25 |
| 10 | 404 | 27.75 | 103.9 | | 77.63 |
| 11 | 424 | 47.18 | 168.5 | | 78.74 |
| 12 | 446 | 52.58 | 178.4 | | 80.00 |
| 13 | 484 | 15.04 | 47.0 | | 82.14 |
| 14 | 521 | 8.80 | 25.6 | | 84.05 |
| 15 | 550 | 8.49 | 23.4 | | 85.40 |
| 16 | 10,380 | 75.00 | 10.9 | Upper Marker | 113.00 |
| 17 | 11,918 | 0.00 | 0.0 | | 114.63 |

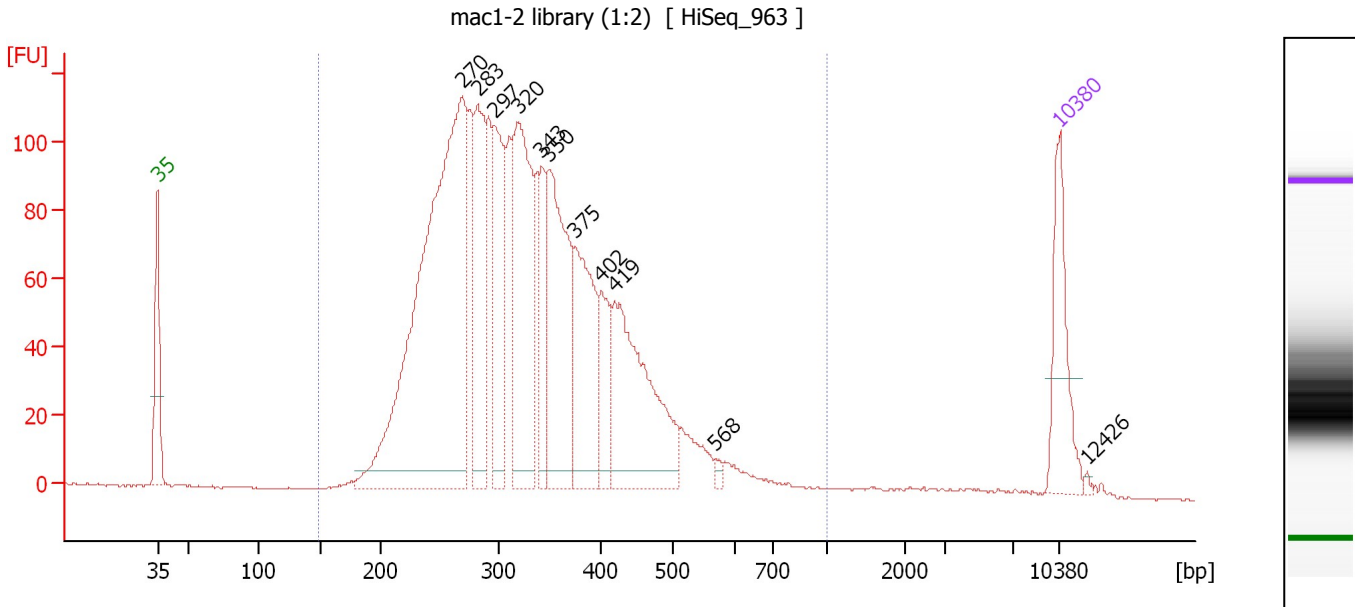
Region table for sample 4 : mac1-1 library (1:2)

| From [bp] | To [bp] | Average Size [bp] | Corr. Area | Molarity [pmol/l] | Co Conc. [pg/μl] | % of Total | Size distribution in CV [%] |
|-----------|---------|-------------------|------------|-------------------|------------------|------------|-----------------------------|
| 163 | 1,000 | 344 | 1,149.5 | 6,449.0 | 1,325.08 | 96 | 29.8 |

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\... bioanalyzer\2100 expert\data\2017-05-15\2017-05-15_001.xad

Created: 5/15/2017 10:16:04 AM
 Modified: 5/15/2017 10:57:57 AM

Electropherogram Summary Continued ...



Overall Results for sample 5 : mac1-2 library (1:2)

Number of peaks found: 11 Corr. Area 1: 2,484.5
 Noise: 0.3

Peak table for sample 5 : mac1-2 library (1:2)

| 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 | 270 | 780.25 | 4,376.4 | | 66.69 |
| 3 | 283 | 169.54 | 907.9 | | 67.87 |
| 4 | 297 | 154.05 | 786.4 | | 69.14 |
| 5 | 320 | 248.09 | 1,174.6 | | 71.03 |
| 6 | 343 | 80.56 | 356.3 | | 72.82 |
| 7 | 350 | 235.71 | 1,019.5 | | 73.43 |
| 8 | 375 | 167.80 | 677.6 | | 75.41 |
| 9 | 402 | 65.08 | 245.3 | | 77.48 |
| 10 | 419 | 228.99 | 827.2 | | 78.47 |
| 11 | 568 | 5.72 | 15.2 | | 86.29 |
| 12 | 10,380 | 75.00 | 10.9 | Upper Marker | 113.00 |
| 13 | 12,426 | 0.00 | 0.0 | | 115.17 |

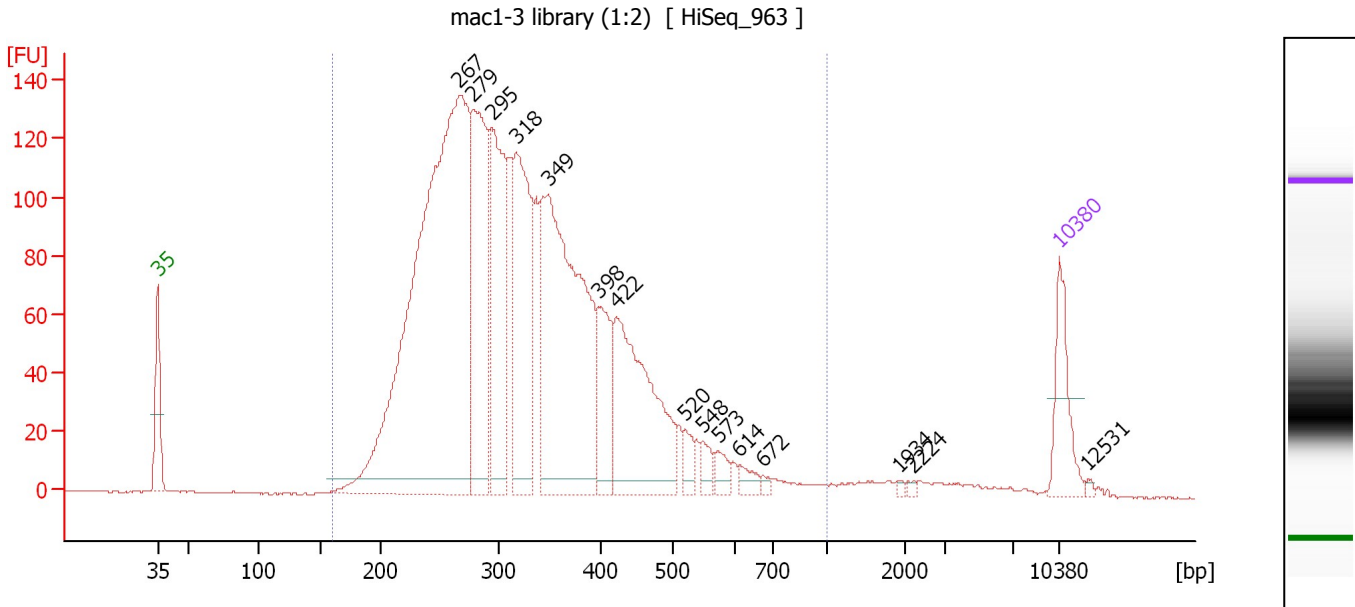
Region table for sample 5 : mac1-2 library (1:2)

| From [bp] | To [bp] | Average Size [bp] | Corr. Area | Molarity [pmol/l] | Co Conc. lor [pg/μl] | % of Total | Size distribution in CV [%] |
|-----------|---------|-------------------|------------|-------------------|----------------------|------------|-----------------------------|
| 149 | 1,000 | 334 | 2,484.5 | 12,588.3 | 2,558.28 | 99 | 26.8 |

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\... bioanalyzer\2100 expert\data\2017-05-15\2017-05-15_001.xad

Created: 5/15/2017 10:16:04 AM
 Modified: 5/15/2017 10:57:57 AM

Electropherogram Summary Continued ...



Overall Results for sample 6 : mac1-3 library (1:2)

Number of peaks found: 15 Corr. Area 1: 2,973.3
 Noise: 0.2

Peak table for sample 6 : mac1-3 library (1:2)

| 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 | 267 | 1,449.56 | 8,213.4 | | 66.44 |
| 3 | 279 | 372.55 | 2,024.9 | | 67.49 |
| 4 | 295 | 319.87 | 1,644.1 | | 68.96 |
| 5 | 318 | 362.36 | 1,727.1 | | 70.86 |
| 6 | 349 | 666.67 | 2,894.5 | | 73.33 |
| 7 | 398 | 121.31 | 461.8 | | 77.22 |
| 8 | 422 | 335.85 | 1,207.1 | | 78.59 |
| 9 | 520 | 25.95 | 75.5 | | 84.00 |
| 10 | 548 | 24.67 | 68.2 | | 85.33 |
| 11 | 573 | 24.35 | 64.4 | | 86.52 |
| 12 | 614 | 17.81 | 44.0 | | 88.23 |
| 13 | 672 | 6.33 | 14.3 | | 89.98 |
| 14 | 1,934 | 2.97 | 2.3 | | 100.61 |
| 15 | 2,224 | 3.76 | 2.6 | | 101.71 |
| 16 | 10,380 | 75.00 | 10.9 | Upper Marker | 113.00 |
| 17 | 12,531 | 0.00 | 0.0 | | 115.28 |

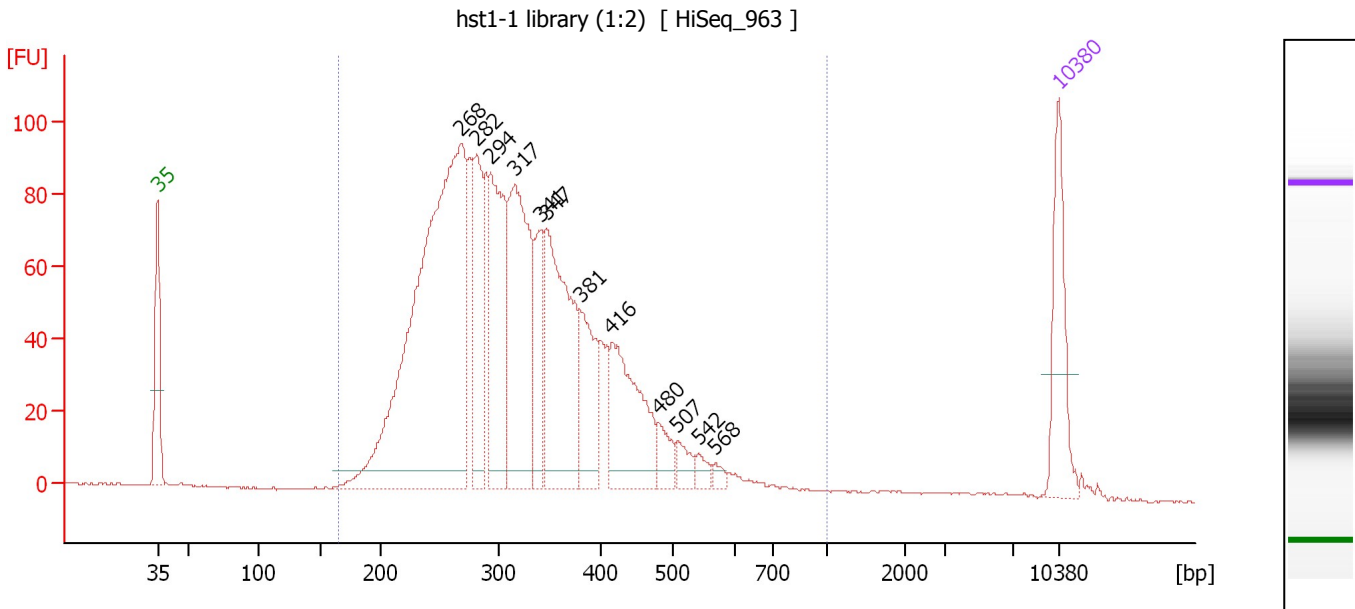
Region table for sample 6 : mac1-3 library (1:2)

| From [bp] | To [bp] | Average Size [bp] | Corr. Area | Molarity [pmol/l] | Co Conc. [pg/μl] | % of Total | Size distribution in CV [%] |
|-----------|---------|-------------------|------------|-------------------|------------------|------------|-----------------------------|
| 160 | 1,000 | 334 | 2,973.3 | 20,355.9 | 4,075.75 | 97 | 30.1 |

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\... bioanalyzer\2100 expert\data\2017-05-15\2017-05-15_001.xad

Created: 5/15/2017 10:16:04 AM
 Modified: 5/15/2017 10:57:57 AM

Electropherogram Summary Continued ...



Overall Results for sample 7 : hst1-1 library (1:2)

Number of peaks found: 12 Corr. Area 1: 1,995.2
 Noise: 0.3

Peak table for sample 7 : hst1-1 library (1:2)

| 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 | 268 | 795.12 | 4,499.4 | | 66.48 |
| 3 | 282 | 132.19 | 709.5 | | 67.81 |
| 4 | 294 | 201.48 | 1,039.3 | | 68.86 |
| 5 | 317 | 265.24 | 1,268.6 | | 70.77 |
| 6 | 341 | 79.22 | 351.5 | | 72.73 |
| 7 | 347 | 253.28 | 1,104.5 | | 73.20 |
| 8 | 381 | 94.71 | 377.1 | | 75.83 |
| 9 | 416 | 146.47 | 533.8 | | 78.26 |
| 10 | 480 | 27.46 | 86.7 | | 81.89 |
| 11 | 507 | 19.69 | 58.8 | | 83.37 |
| 12 | 542 | 12.96 | 36.2 | | 85.04 |
| 13 | 568 | 7.67 | 20.5 | | 86.28 |
| 14 | 10,380 | 75.00 | 10.9 | Upper Marker | 113.00 |

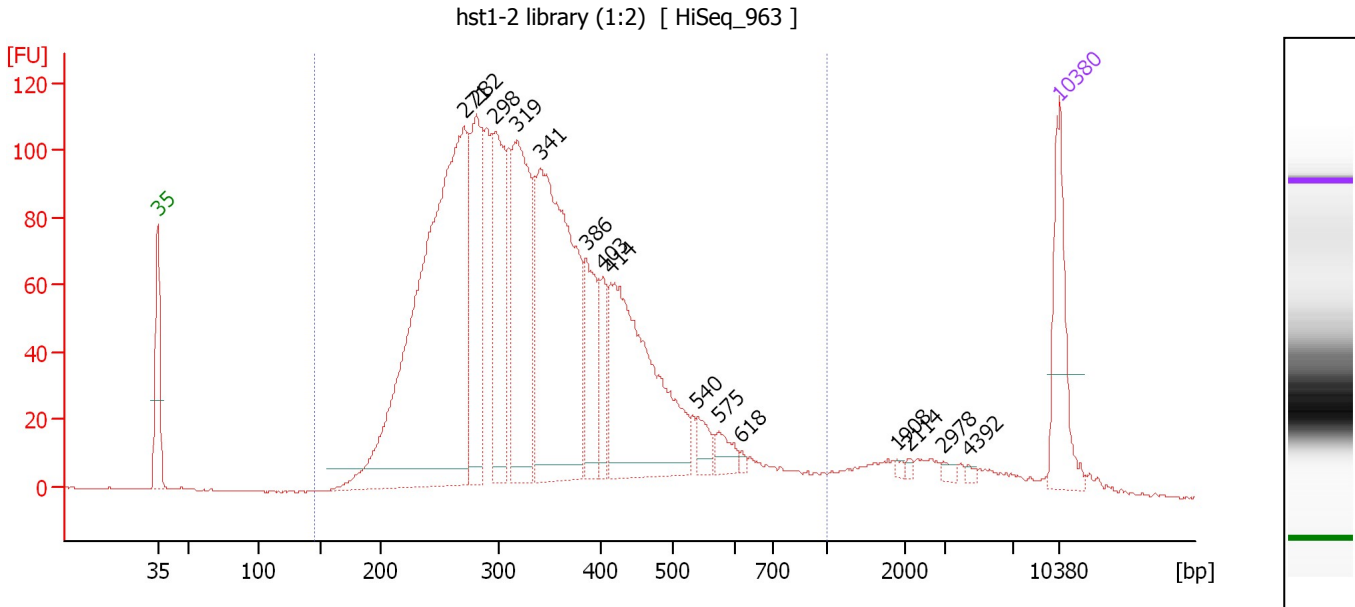
Region table for sample 7 : hst1-1 library (1:2)

| From [bp] | To [bp] | Average Size [bp] | Corr. Area | Molarity [pmol/l] | Co Conc. lor [pg/μl] | % of Total | Size distribution in CV [%] |
|-----------|---------|-------------------|------------|-------------------|----------------------|------------|-----------------------------|
| 166 | 1,000 | 327 | 1,995.2 | 11,662.6 | 2,312.64 | 99 | 27.3 |

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\... bioanalyzer\2100 expert\data\2017-05-15\2017-05-15_001.xad

Created: 5/15/2017 10:16:04 AM
 Modified: 5/15/2017 10:57:57 AM

Electropherogram Summary Continued ...



Overall Results for sample 8 : hst1-2 library (1:2)

Number of peaks found: 15 Corr. Area 1: 2,613.5
 Noise: 0.2

Peak table for sample 8 : hst1-2 library (1:2)

| 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 | 271 | 807.98 | 4,513.5 | | 66.80 |
| 3 | 282 | 195.00 | 1,047.1 | | 67.80 |
| 4 | 298 | 179.65 | 914.0 | | 69.24 |
| 5 | 319 | 233.40 | 1,110.0 | | 70.91 |
| 6 | 341 | 433.57 | 1,927.0 | | 72.69 |
| 7 | 386 | 92.73 | 363.9 | | 76.28 |
| 8 | 403 | 49.65 | 186.9 | | 77.52 |
| 9 | 414 | 293.41 | 1,072.6 | | 78.19 |
| 10 | 540 | 21.71 | 60.9 | | 84.94 |
| 11 | 575 | 19.94 | 52.5 | | 86.62 |
| 12 | 618 | 3.55 | 8.7 | | 88.34 |
| 13 | 1,908 | 2.45 | 1.9 | | 100.46 |
| 14 | 2,114 | 2.62 | 1.9 | | 101.37 |
| 15 | 2,978 | 4.52 | 2.3 | | 104.05 |
| 16 | 4,392 | 2.74 | 0.9 | | 105.96 |
| 17 | 10,380 | 75.00 | 10.9 | Upper Marker | 113.00 |

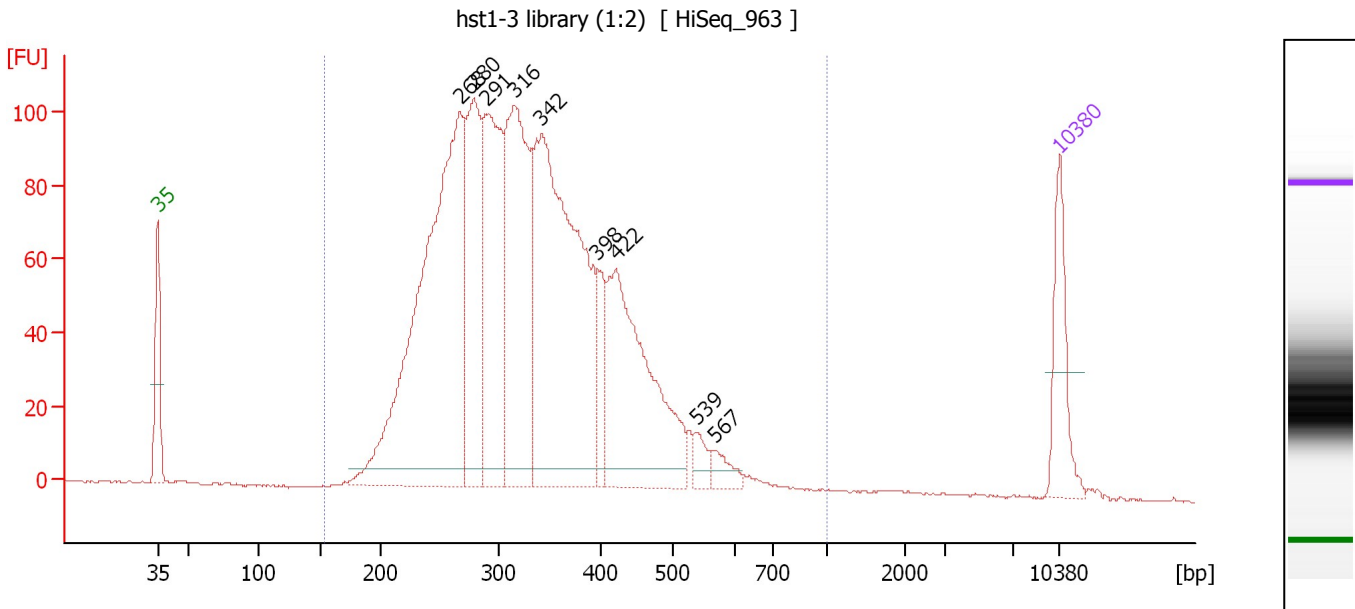
Region table for sample 8 : hst1-2 library (1:2)

| From [bp] | To [bp] | Average Size [bp] | Corr. Area | Molarity [pmol/l] | Co Conc. [pg/μl] | % of Total | Size distribution in CV [%] |
|-----------|---------|-------------------|------------|-------------------|------------------|------------|-----------------------------|
| 145 | 1,000 | 350 | 2,613.5 | 13,306.7 | 2,748.61 | 94 | 32.1 |

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\... bioanalyzer\2100 expert\data\2017-05-15\2017-05-15_001.xad

Created: 5/15/2017 10:16:04 AM
 Modified: 5/15/2017 10:57:57 AM

Electropherogram Summary Continued ...



Overall Results for sample 9 : hst1-3 library (1:2)

Number of peaks found: 9 Corr. Area 1: 2,331.5
 Noise: 0.3

Peak table for sample 9 : hst1-3 library (1:2)

| 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 | 268 | 815.48 | 4,608.4 | | 66.51 |
| 3 | 280 | 271.02 | 1,468.5 | | 67.57 |
| 4 | 291 | 340.13 | 1,773.3 | | 68.58 |
| 5 | 316 | 404.06 | 1,938.6 | | 70.69 |
| 6 | 342 | 673.36 | 2,979.2 | | 72.81 |
| 7 | 398 | 60.52 | 230.6 | | 77.18 |
| 8 | 422 | 346.31 | 1,243.0 | | 78.63 |
| 9 | 539 | 23.69 | 66.6 | | 84.88 |
| 10 | 567 | 23.89 | 63.9 | | 86.22 |
| 11 | 10,380 | 75.00 | 10.9 | Upper Marker | 113.00 |

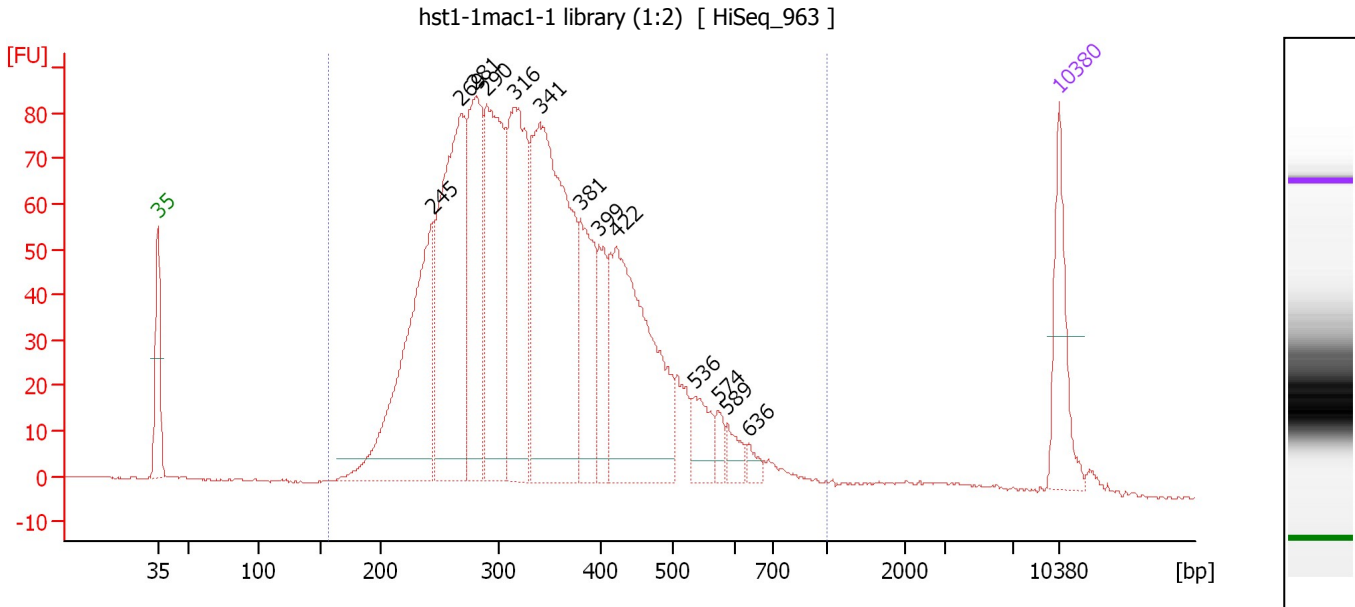
Region table for sample 9 : hst1-3 library (1:2)

| From [bp] | To [bp] | Average Size [bp] | Corr. Area | Molarity [pmol/l] | Co Conc. lor [pg/μl] | % of Total | Size distribution in CV [%] |
|-----------|---------|-------------------|------------|-------------------|----------------------|------------|-----------------------------|
| 154 | 1,000 | 337 | 2,331.5 | 14,782.2 | 3,028.82 | 99 | 26.3 |

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\... bioanalyzer\2100 expert\data\2017-05-15\2017-05-15_001.xad

Created: 5/15/2017 10:16:04 AM
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Electropherogram Summary Continued ...



Overall Results for sample 10 : hst1-1mac1-1 library (1:2)

Number of peaks found: 13 Corr. Area 1: 2,031.7
 Noise: 0.2

Peak table for sample 10 : hst1-1mac1-1 library (1:2)

| 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 | 245 | 382.29 | 2,363.5 | | 64.39 |
| 3 | 269 | 425.41 | 2,397.6 | | 66.58 |
| 4 | 281 | 254.93 | 1,374.6 | | 67.69 |
| 5 | 290 | 312.99 | 1,632.5 | | 68.56 |
| 6 | 316 | 308.31 | 1,478.8 | | 70.70 |
| 7 | 341 | 528.59 | 2,349.0 | | 72.69 |
| 8 | 381 | 143.21 | 570.0 | | 75.84 |
| 9 | 399 | 75.36 | 286.2 | | 77.30 |
| 10 | 422 | 344.49 | 1,237.4 | | 78.61 |
| 11 | 536 | 46.84 | 132.3 | | 84.77 |
| 12 | 574 | 17.81 | 47.0 | | 86.56 |
| 13 | 589 | 22.09 | 56.8 | | 87.29 |
| 14 | 636 | 11.70 | 27.9 | | 88.89 |
| 15 | 10,380 | 75.00 | 10.9 | Upper Marker | 113.00 |

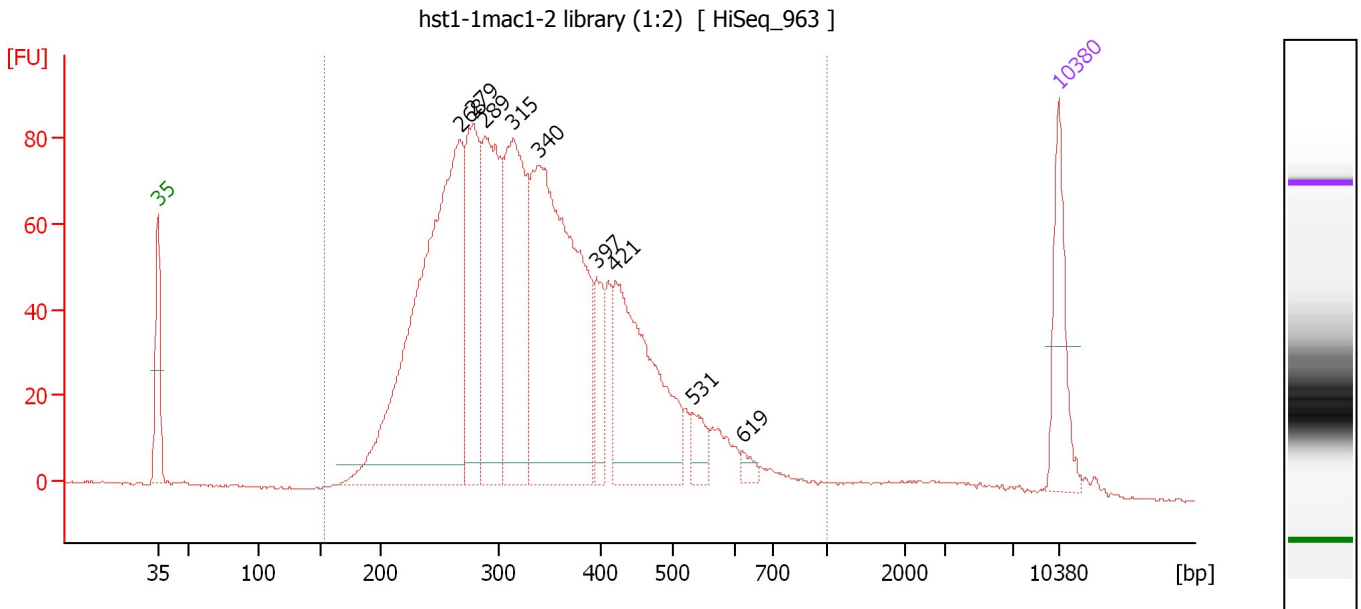
Region table for sample 10 : hst1-1mac1-1 library (1:2)

| From [bp] | To [bp] | Average Size [bp] | Corr. Area | Molarity [pmol/l] | Co Conc. [pg/μl] | % of Total | Size distribution in CV [%] |
|-----------|---------|-------------------|------------|-------------------|------------------|------------|-----------------------------|
| 157 | 1,000 | 351 | 2,031.7 | 14,555.6 | 3,041.40 | 98 | 29.9 |

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\... bioanalyzer\2100 expert\data\2017-05-15\2017-05-15_001.xad

Created: 5/15/2017 10:16:04 AM
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Electropherogram Summary Continued ...



Overall Results for sample 11 : hst1-1mac1-2 library (1:2)

Number of peaks found: 9 Corr. Area 1: 1,957.2
 Noise: 0.2

Peak table for sample 11 : hst1-1mac1-2 library (1:2)

| 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 | 268 | 728.57 | 4,122.1 | | 66.48 |
| 3 | 279 | 231.37 | 1,256.3 | | 67.51 |
| 4 | 289 | 281.59 | 1,475.3 | | 68.45 |
| 5 | 315 | 302.23 | 1,452.1 | | 70.66 |
| 6 | 340 | 567.56 | 2,528.5 | | 72.62 |
| 7 | 397 | 59.94 | 228.7 | | 77.14 |
| 8 | 421 | 276.27 | 994.1 | | 78.56 |
| 9 | 531 | 30.62 | 87.4 | | 84.51 |
| 10 | 619 | 10.67 | 26.1 | | 88.39 |
| 11 | 10,380 | 75.00 | 10.9 | Upper Marker | 113.00 |

Region table for sample 11 : hst1-1mac1-2 library (1:2)

| From [bp] | To [bp] | Average Size [bp] | Corr. Area | Molarity [pmol/l] | Co Conc. lor [pg/μl] | % of Total | Size distribution in CV [%] |
|-----------|---------|-------------------|------------|-------------------|----------------------|------------|-----------------------------|
| 154 | 1,000 | 346 | 1,957.2 | 12,977.5 | 2,675.00 | 98 | 30.2 |

Assay Class: High Sensitivity DNA Assay
Data Path: C:\... bioanalyzer\2100 expert\data\2017-05-15\2017-05-15_001.xad

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Gel Image

