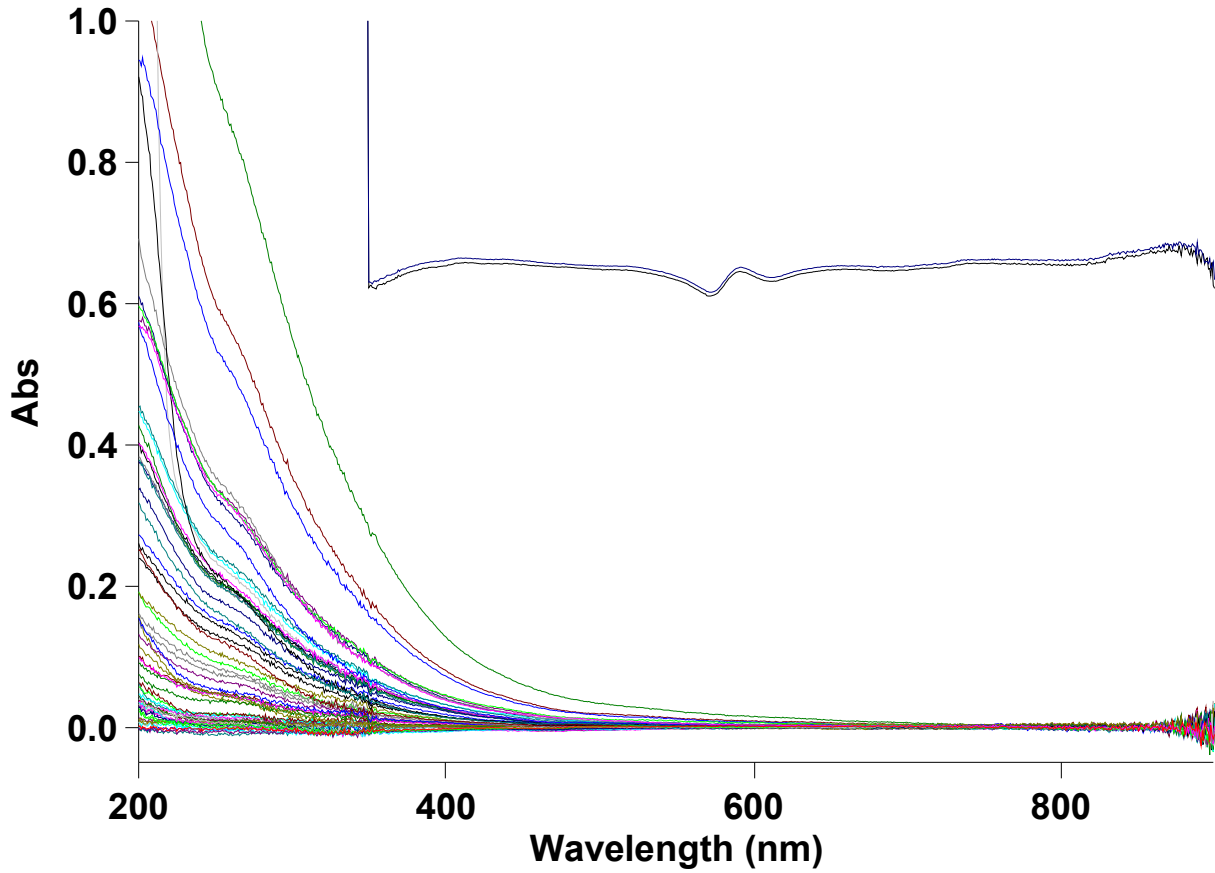


NIVA



## Scan Analysis Report

Report Time : Thu 17 Oct 01:52:05 PM 2019  
 Method: H:\1000 sjører UV-spek\UV-scan MED SAMPLER 1000 sjoer.MSW  
 Batch: H:\1000 sjører UV-spek\191017\191016\_run.DSW  
 Software version: 4.20(468)  
 Operator: KBL

## Zero Report

| Read | Abs (900.00) |
|------|--------------|
| Zero | 0.0230       |

## Sample Name: Baseline 100%T

Collection Time 10/16/2019 11:23:41 AM

|                |                      |
|----------------|----------------------|
| Peak Table     | Peaks                |
| Peak Style     | 0.0100               |
| Peak Threshold | 900.00nm to 200.00nm |
| Range          |                      |

| Wavelength (nm) | Abs   |
|-----------------|-------|
| 898.40          | 0.659 |
| 892.00          | 0.671 |
| 889.60          | 0.674 |

|        |       |
|--------|-------|
| 880.00 | 0.683 |
| 870.40 | 0.682 |
| 591.20 | 0.646 |
| 412.00 | 0.658 |

X-Y Pairs Table  
Data Interval

10.00

| Wavelength (nm) | Abs   | Wavelength (nm) | Abs   | Wavelength (nm) | Abs   |
|-----------------|-------|-----------------|-------|-----------------|-------|
| 900.00          | 0.622 | 660.00          | 0.649 | 420.00          | 0.657 |
| 890.00          | 0.670 | 650.00          | 0.648 | 410.00          | 0.658 |
| 880.00          | 0.683 | 640.00          | 0.645 | 400.00          | 0.653 |
| 870.00          | 0.679 | 630.00          | 0.642 | 390.00          | 0.651 |
| 860.00          | 0.671 | 620.00          | 0.635 | 380.00          | 0.647 |
| 850.00          | 0.668 | 610.00          | 0.632 | 370.00          | 0.639 |
| 840.00          | 0.666 | 600.00          | 0.639 | 360.00          | 0.628 |
| 830.00          | 0.663 | 590.00          | 0.645 | 350.00          | 0.624 |
| 820.00          | 0.656 | 580.00          | 0.624 | 340.00          | 1.276 |
| 810.00          | 0.655 | 570.00          | 0.611 | 330.00          | 1.280 |
| 800.00          | 0.654 | 560.00          | 0.624 | 320.00          | 1.295 |
| 790.00          | 0.655 | 550.00          | 0.634 | 310.00          | 1.307 |
| 780.00          | 0.655 | 540.00          | 0.639 | 300.00          | 1.312 |
| 770.00          | 0.657 | 530.00          | 0.644 | 290.00          | 1.325 |
| 760.00          | 0.657 | 520.00          | 0.647 | 280.00          | 1.341 |
| 750.00          | 0.657 | 510.00          | 0.648 | 270.00          | 1.354 |
| 740.00          | 0.657 | 500.00          | 0.649 | 260.00          | 1.369 |
| 730.00          | 0.654 | 490.00          | 0.650 | 250.00          | 1.388 |
| 720.00          | 0.651 | 480.00          | 0.652 | 240.00          | 1.405 |
| 710.00          | 0.650 | 470.00          | 0.652 | 230.00          | 1.421 |
| 700.00          | 0.647 | 460.00          | 0.654 | 220.00          | 1.440 |
| 690.00          | 0.647 | 450.00          | 0.656 | 210.00          | 1.456 |
| 680.00          | 0.647 | 440.00          | 0.657 | 200.00          | 1.482 |
| 670.00          | 0.648 | 430.00          | 0.656 |                 |       |

**Sample Name: Sample 1 Rack 1 Tube 1**

Collection Time 10/16/2019 11:54:48 AM

## Peak Table

Peak Style

Peak Threshold

Range

Peaks

0.0100

900.00nm to 200.00nm

| Wavelength (nm) | Abs   |
|-----------------|-------|
| 899.20          | 0.020 |
| 897.60          | 0.026 |
| 896.00          | 0.015 |
| 893.60          | 0.011 |
| 891.20          | 0.006 |
| 888.80          | 0.019 |
| 884.00          | 0.005 |
| 878.40          | 0.009 |
| 354.40          | 0.006 |

X-Y Pairs Table  
Data Interval

10.00

| Wavelength (nm) | Abs    | Wavelength (nm) | Abs    | Wavelength (nm) | Abs    |
|-----------------|--------|-----------------|--------|-----------------|--------|
| 900.00          | 0.002  | 660.00          | -0.002 | 420.00          | 0.004  |
| 890.00          | -0.005 | 650.00          | 0.000  | 410.00          | 0.004  |
| 880.00          | -0.006 | 640.00          | 0.000  | 400.00          | 0.004  |
| 870.00          | -0.002 | 630.00          | 0.000  | 390.00          | 0.003  |
| 860.00          | 0.001  | 620.00          | 0.000  | 380.00          | 0.003  |
| 850.00          | -0.001 | 610.00          | 0.000  | 370.00          | 0.002  |
| 840.00          | -0.002 | 600.00          | 0.000  | 360.00          | 0.003  |
| 830.00          | -0.002 | 590.00          | 0.001  | 350.00          | -0.001 |
| 820.00          | 0.000  | 580.00          | 0.001  | 340.00          | 0.001  |
| 810.00          | -0.003 | 570.00          | 0.001  | 330.00          | 0.000  |
| 800.00          | -0.001 | 560.00          | 0.000  | 320.00          | -0.003 |
| 790.00          | -0.001 | 550.00          | 0.001  | 310.00          | -0.003 |
| 780.00          | -0.001 | 540.00          | 0.001  | 300.00          | -0.003 |
| 770.00          | -0.001 | 530.00          | 0.001  | 290.00          | -0.001 |
| 760.00          | 0.000  | 520.00          | 0.000  | 280.00          | -0.003 |
| 750.00          | -0.001 | 510.00          | -0.001 | 270.00          | 0.000  |
| 740.00          | -0.001 | 500.00          | -0.001 | 260.00          | -0.003 |
| 730.00          | -0.001 | 490.00          | -0.001 | 250.00          | -0.003 |

|        |        |        |        |        |        |
|--------|--------|--------|--------|--------|--------|
| 720.00 | -0.001 | 480.00 | -0.001 | 240.00 | -0.001 |
| 710.00 | -0.001 | 470.00 | 0.000  | 230.00 | -0.002 |
| 700.00 | 0.000  | 460.00 | 0.001  | 220.00 | -0.003 |
| 690.00 | -0.001 | 450.00 | 0.002  | 210.00 | 0.000  |
| 680.00 | -0.001 | 440.00 | 0.003  | 200.00 | -0.001 |
| 670.00 | 0.000  | 430.00 | 0.004  |        |        |

**Sample Name: Sample 2 Rack 1 Tube 2**

Collection Time 10/16/2019 11:58:01 AM

## Peak Table

Peak Style

Peak Threshold

Range

## Peaks

0.0100

900.00nm to 200.00nm

| Wavelength (nm) | Abs   |
|-----------------|-------|
| 897.60          | 0.006 |
| 891.20          | 0.013 |
| 888.80          | 0.012 |
| 884.00          | 0.011 |
| 878.40          | 0.009 |
| 872.80          | 0.006 |
| 861.60          | 0.008 |

## X-Y Pairs Table

Data Interval

10.00

| Wavelength (nm) | Abs    | Wavelength (nm) | Abs   | Wavelength (nm) | Abs   |
|-----------------|--------|-----------------|-------|-----------------|-------|
| 900.00          | 0.004  | 660.00          | 0.001 | 420.00          | 0.033 |
| 890.00          | 0.000  | 650.00          | 0.002 | 410.00          | 0.038 |
| 880.00          | -0.009 | 640.00          | 0.003 | 400.00          | 0.046 |
| 870.00          | -0.006 | 630.00          | 0.003 | 390.00          | 0.053 |
| 860.00          | 0.001  | 620.00          | 0.003 | 380.00          | 0.063 |
| 850.00          | 0.001  | 610.00          | 0.003 | 370.00          | 0.074 |
| 840.00          | -0.001 | 600.00          | 0.004 | 360.00          | 0.088 |
| 830.00          | -0.003 | 590.00          | 0.004 | 350.00          | 0.098 |
| 820.00          | 0.000  | 580.00          | 0.005 | 340.00          | 0.121 |
| 810.00          | 0.000  | 570.00          | 0.005 | 330.00          | 0.137 |
| 800.00          | 0.000  | 560.00          | 0.005 | 320.00          | 0.153 |
| 790.00          | 0.001  | 550.00          | 0.006 | 310.00          | 0.176 |
| 780.00          | 0.001  | 540.00          | 0.006 | 300.00          | 0.203 |
| 770.00          | 0.001  | 530.00          | 0.006 | 290.00          | 0.228 |
| 760.00          | 0.001  | 520.00          | 0.007 | 280.00          | 0.259 |
| 750.00          | 0.000  | 510.00          | 0.007 | 270.00          | 0.294 |
| 740.00          | 0.001  | 500.00          | 0.008 | 260.00          | 0.319 |
| 730.00          | 0.000  | 490.00          | 0.010 | 250.00          | 0.340 |
| 720.00          | 0.001  | 480.00          | 0.011 | 240.00          | 0.377 |
| 710.00          | 0.000  | 470.00          | 0.014 | 230.00          | 0.428 |
| 700.00          | 0.001  | 460.00          | 0.017 | 220.00          | 0.483 |
| 690.00          | 0.001  | 450.00          | 0.021 | 210.00          | 0.546 |
| 680.00          | 0.001  | 440.00          | 0.025 | 200.00          | 0.576 |
| 670.00          | 0.002  | 430.00          | 0.029 |                 |       |

**Sample Name: Sample 3 Rack 1 Tube 3**

Collection Time 10/16/2019 12:01:14 PM

## Peak Table

Peak Style

Peak Threshold

Range

## Peaks

0.0100

900.00nm to 200.00nm

| Wavelength (nm) | Abs   |
|-----------------|-------|
| 896.80          | 0.020 |
| 894.40          | 0.030 |
| 890.40          | 0.017 |
| 888.80          | 0.029 |
| 883.20          | 0.013 |
| 878.40          | 0.012 |
| 875.20          | 0.007 |

## X-Y Pairs Table

Data Interval

10.00

| Wavelength (nm) | Abs    | Wavelength (nm) | Abs   | Wavelength (nm) | Abs   |
|-----------------|--------|-----------------|-------|-----------------|-------|
| 900.00          | 0.025  | 660.00          | 0.006 | 420.00          | 0.058 |
| 890.00          | 0.011  | 650.00          | 0.008 | 410.00          | 0.069 |
| 880.00          | -0.003 | 640.00          | 0.008 | 400.00          | 0.081 |
| 870.00          | 0.001  | 630.00          | 0.009 | 390.00          | 0.095 |
| 860.00          | 0.001  | 620.00          | 0.009 | 380.00          | 0.111 |
| 850.00          | 0.000  | 610.00          | 0.009 | 370.00          | 0.132 |
| 840.00          | 0.000  | 600.00          | 0.010 | 360.00          | 0.154 |
| 830.00          | -0.001 | 590.00          | 0.011 | 350.00          | 0.178 |
| 820.00          | 0.001  | 580.00          | 0.011 | 340.00          | 0.208 |
| 810.00          | 0.001  | 570.00          | 0.012 | 330.00          | 0.240 |
| 800.00          | 0.002  | 560.00          | 0.013 | 320.00          | 0.272 |
| 790.00          | 0.003  | 550.00          | 0.014 | 310.00          | 0.309 |
| 780.00          | 0.003  | 540.00          | 0.016 | 300.00          | 0.356 |
| 770.00          | 0.002  | 530.00          | 0.017 | 290.00          | 0.405 |
| 760.00          | 0.003  | 520.00          | 0.019 | 280.00          | 0.457 |
| 750.00          | 0.003  | 510.00          | 0.020 | 270.00          | 0.517 |
| 740.00          | 0.004  | 500.00          | 0.020 | 260.00          | 0.561 |
| 730.00          | 0.004  | 490.00          | 0.021 | 250.00          | 0.602 |
| 720.00          | 0.005  | 480.00          | 0.024 | 240.00          | 0.668 |
| 710.00          | 0.004  | 470.00          | 0.027 | 230.00          | 0.765 |
| 700.00          | 0.006  | 460.00          | 0.032 | 220.00          | 0.868 |
| 690.00          | 0.006  | 450.00          | 0.037 | 210.00          | 0.982 |
| 680.00          | 0.006  | 440.00          | 0.043 | 200.00          | 1.052 |
| 670.00          | 0.007  | 430.00          | 0.051 |                 |       |

**Sample Name: Sample 4 Rack 1 Tube 4**

Collection Time 10/16/2019 12:04:26 PM

## Peak Table

Peak Style

Peak Threshold

Range

## Peaks

0.0100

900.00nm to 200.00nm

| Wavelength (nm) | Abs   |
|-----------------|-------|
| 897.60          | 0.023 |
| 893.60          | 0.010 |
| 888.80          | 0.014 |
| 885.60          | 0.016 |
| 878.40          | 0.019 |
| 876.00          | 0.013 |
| 200.80          | 1.559 |

## X-Y Pairs Table

Data Interval

10.00

| Wavelength (nm) | Abs    | Wavelength (nm) | Abs   | Wavelength (nm) | Abs   |
|-----------------|--------|-----------------|-------|-----------------|-------|
| 900.00          | 0.035  | 660.00          | 0.010 | 420.00          | 0.093 |
| 890.00          | 0.005  | 650.00          | 0.012 | 410.00          | 0.109 |
| 880.00          | 0.000  | 640.00          | 0.013 | 400.00          | 0.129 |
| 870.00          | -0.001 | 630.00          | 0.014 | 390.00          | 0.152 |
| 860.00          | 0.005  | 620.00          | 0.015 | 380.00          | 0.178 |
| 850.00          | 0.003  | 610.00          | 0.015 | 370.00          | 0.210 |
| 840.00          | 0.001  | 600.00          | 0.016 | 360.00          | 0.247 |
| 830.00          | 0.001  | 590.00          | 0.018 | 350.00          | 0.279 |
| 820.00          | 0.004  | 580.00          | 0.019 | 340.00          | 0.327 |
| 810.00          | 0.002  | 570.00          | 0.021 | 330.00          | 0.373 |
| 800.00          | 0.004  | 560.00          | 0.022 | 320.00          | 0.425 |
| 790.00          | 0.003  | 550.00          | 0.024 | 310.00          | 0.486 |
| 780.00          | 0.005  | 540.00          | 0.026 | 300.00          | 0.550 |
| 770.00          | 0.003  | 530.00          | 0.028 | 290.00          | 0.626 |
| 760.00          | 0.006  | 520.00          | 0.030 | 280.00          | 0.701 |
| 750.00          | 0.004  | 510.00          | 0.032 | 270.00          | 0.786 |
| 740.00          | 0.005  | 500.00          | 0.035 | 260.00          | 0.854 |
| 730.00          | 0.005  | 490.00          | 0.038 | 250.00          | 0.911 |
| 720.00          | 0.007  | 480.00          | 0.042 | 240.00          | 1.004 |
| 710.00          | 0.007  | 470.00          | 0.047 | 230.00          | 1.139 |
| 700.00          | 0.008  | 460.00          | 0.053 | 220.00          | 1.287 |
| 690.00          | 0.008  | 450.00          | 0.061 | 210.00          | 1.459 |
| 680.00          | 0.009  | 440.00          | 0.071 | 200.00          | 1.544 |
| 670.00          | 0.009  | 430.00          | 0.082 |                 |       |

**Sample Name: Sample 5 Rack 1 Tube 5**

Collection Time 10/16/2019 12:07:37 PM

Peak Table  
 Peak Style Peaks  
 Peak Threshold 0.0100  
 Range 900.00nm to 200.00nm

| Wavelength (nm) | Abs   |
|-----------------|-------|
| 896.00          | 0.003 |
| 893.60          | 0.008 |
| 891.20          | 0.018 |
| 888.80          | 0.013 |
| 884.00          | 0.006 |
| 876.00          | 0.010 |
| 353.60          | 0.010 |

X-Y Pairs Table  
 Data Interval 10.00

| Wavelength (nm) | Abs    | Wavelength (nm) | Abs    | Wavelength (nm) | Abs   |
|-----------------|--------|-----------------|--------|-----------------|-------|
| 900.00          | 0.030  | 660.00          | -0.001 | 420.00          | 0.000 |
| 890.00          | -0.001 | 650.00          | -0.001 | 410.00          | 0.001 |
| 880.00          | -0.009 | 640.00          | -0.001 | 400.00          | 0.002 |
| 870.00          | -0.004 | 630.00          | 0.000  | 390.00          | 0.002 |
| 860.00          | 0.001  | 620.00          | 0.000  | 380.00          | 0.002 |
| 850.00          | 0.001  | 610.00          | -0.001 | 370.00          | 0.004 |
| 840.00          | -0.001 | 600.00          | 0.000  | 360.00          | 0.005 |
| 830.00          | -0.002 | 590.00          | 0.000  | 350.00          | 0.002 |
| 820.00          | 0.001  | 580.00          | -0.001 | 340.00          | 0.006 |
| 810.00          | 0.001  | 570.00          | 0.000  | 330.00          | 0.010 |
| 800.00          | 0.002  | 560.00          | -0.001 | 320.00          | 0.009 |
| 790.00          | 0.001  | 550.00          | -0.001 | 310.00          | 0.009 |
| 780.00          | 0.000  | 540.00          | -0.001 | 300.00          | 0.016 |
| 770.00          | 0.000  | 530.00          | -0.001 | 290.00          | 0.022 |
| 760.00          | 0.000  | 520.00          | -0.002 | 280.00          | 0.027 |
| 750.00          | -0.001 | 510.00          | -0.002 | 270.00          | 0.035 |
| 740.00          | 0.000  | 500.00          | -0.002 | 260.00          | 0.039 |
| 730.00          | -0.001 | 490.00          | -0.003 | 250.00          | 0.042 |
| 720.00          | -0.001 | 480.00          | -0.003 | 240.00          | 0.050 |
| 710.00          | -0.001 | 470.00          | -0.004 | 230.00          | 0.058 |
| 700.00          | 0.000  | 460.00          | -0.004 | 220.00          | 0.078 |
| 690.00          | 0.000  | 450.00          | -0.003 | 210.00          | 0.108 |
| 680.00          | -0.001 | 440.00          | -0.001 | 200.00          | 0.160 |
| 670.00          | -0.001 | 430.00          | 0.000  |                 |       |

**Sample Name: Sample 6 Rack 1 Tube 6**

Collection Time 10/16/2019 12:10:48 PM

Peak Table  
 Peak Style Peaks  
 Peak Threshold 0.0100  
 Range 900.00nm to 200.00nm

| Wavelength (nm) | Abs   |
|-----------------|-------|
| 891.20          | 0.010 |
| 888.80          | 0.009 |
| 885.60          | 0.012 |
| 880.80          | 0.002 |
| 878.40          | 0.007 |

X-Y Pairs Table  
 Data Interval 10.00

| Wavelength (nm) | Abs    | Wavelength (nm) | Abs   | Wavelength (nm) | Abs   |
|-----------------|--------|-----------------|-------|-----------------|-------|
| 900.00          | 0.021  | 660.00          | 0.002 | 420.00          | 0.019 |
| 890.00          | -0.006 | 650.00          | 0.002 | 410.00          | 0.023 |
| 880.00          | -0.008 | 640.00          | 0.003 | 400.00          | 0.027 |
| 870.00          | -0.001 | 630.00          | 0.002 | 390.00          | 0.032 |
| 860.00          | -0.002 | 620.00          | 0.002 | 380.00          | 0.039 |
| 850.00          | 0.001  | 610.00          | 0.002 | 370.00          | 0.046 |
| 840.00          | -0.001 | 600.00          | 0.002 | 360.00          | 0.055 |

|        |        |        |       |        |       |
|--------|--------|--------|-------|--------|-------|
| 830.00 | -0.001 | 590.00 | 0.002 | 350.00 | 0.062 |
| 820.00 | 0.000  | 580.00 | 0.003 | 340.00 | 0.076 |
| 810.00 | 0.001  | 570.00 | 0.003 | 330.00 | 0.085 |
| 800.00 | 0.001  | 560.00 | 0.003 | 320.00 | 0.094 |
| 790.00 | 0.000  | 550.00 | 0.003 | 310.00 | 0.109 |
| 780.00 | 0.002  | 540.00 | 0.005 | 300.00 | 0.123 |
| 770.00 | 0.000  | 530.00 | 0.005 | 290.00 | 0.139 |
| 760.00 | 0.001  | 520.00 | 0.005 | 280.00 | 0.159 |
| 750.00 | 0.001  | 510.00 | 0.005 | 270.00 | 0.179 |
| 740.00 | 0.001  | 500.00 | 0.005 | 260.00 | 0.196 |
| 730.00 | 0.000  | 490.00 | 0.006 | 250.00 | 0.209 |
| 720.00 | 0.000  | 480.00 | 0.006 | 240.00 | 0.230 |
| 710.00 | 0.000  | 470.00 | 0.007 | 230.00 | 0.265 |
| 700.00 | 0.002  | 460.00 | 0.009 | 220.00 | 0.300 |
| 690.00 | 0.002  | 450.00 | 0.011 | 210.00 | 0.344 |
| 680.00 | 0.002  | 440.00 | 0.013 | 200.00 | 0.377 |
| 670.00 | 0.002  | 430.00 | 0.017 |        |       |

**Sample Name: Sample 7 Rack 1 Tube 7**

Collection Time 10/16/2019 12:14:01 PM

Peak Table  
Peak Style Peaks  
Peak Threshold 0.0100  
Range 900.00nm to 200.00nm

| Wavelength (nm) | Abs   |
|-----------------|-------|
| 899.20          | 0.017 |
| 897.60          | 0.009 |
| 893.60          | 0.006 |
| 891.20          | 0.015 |
| 888.80          | 0.012 |
| 885.60          | 0.006 |
| 878.40          | 0.013 |
| 346.40          | 0.008 |
| 338.40          | 0.007 |

X-Y Pairs Table  
Data Interval 10.00

| Wavelength (nm) | Abs    | Wavelength (nm) | Abs    | Wavelength (nm) | Abs    |
|-----------------|--------|-----------------|--------|-----------------|--------|
| 900.00          | 0.006  | 660.00          | 0.001  | 420.00          | 0.000  |
| 890.00          | 0.003  | 650.00          | 0.001  | 410.00          | 0.001  |
| 880.00          | -0.007 | 640.00          | 0.002  | 400.00          | 0.001  |
| 870.00          | -0.004 | 630.00          | 0.001  | 390.00          | 0.001  |
| 860.00          | -0.001 | 620.00          | 0.001  | 380.00          | 0.000  |
| 850.00          | 0.001  | 610.00          | 0.000  | 370.00          | 0.000  |
| 840.00          | -0.001 | 600.00          | 0.000  | 360.00          | -0.001 |
| 830.00          | -0.003 | 590.00          | -0.001 | 350.00          | -0.005 |
| 820.00          | 0.000  | 580.00          | 0.000  | 340.00          | 0.002  |
| 810.00          | -0.001 | 570.00          | 0.000  | 330.00          | 0.003  |
| 800.00          | 0.001  | 560.00          | -0.001 | 320.00          | 0.000  |
| 790.00          | 0.000  | 550.00          | -0.001 | 310.00          | 0.001  |
| 780.00          | 0.001  | 540.00          | 0.000  | 300.00          | 0.003  |
| 770.00          | 0.000  | 530.00          | -0.001 | 290.00          | 0.005  |
| 760.00          | 0.000  | 520.00          | -0.002 | 280.00          | 0.008  |
| 750.00          | 0.001  | 510.00          | -0.002 | 270.00          | 0.013  |
| 740.00          | 0.001  | 500.00          | -0.003 | 260.00          | 0.012  |
| 730.00          | 0.001  | 490.00          | -0.004 | 250.00          | 0.013  |
| 720.00          | 0.001  | 480.00          | -0.003 | 240.00          | 0.016  |
| 710.00          | 0.000  | 470.00          | -0.004 | 230.00          | 0.017  |
| 700.00          | 0.002  | 460.00          | -0.003 | 220.00          | 0.025  |
| 690.00          | 0.001  | 450.00          | -0.002 | 210.00          | 0.036  |
| 680.00          | 0.001  | 440.00          | -0.002 | 200.00          | 0.064  |
| 670.00          | 0.001  | 430.00          | -0.001 |                 |        |

**Sample Name: Sample 8 Rack 1 Tube 8**

Collection Time 10/16/2019 12:17:12 PM

Peak Table  
Peak Style Peaks  
Peak Threshold 0.0100  
Range 900.00nm to 200.00nm

| Wavelength (nm) | Abs   |
|-----------------|-------|
| 896.00          | 0.009 |
| 893.60          | 0.002 |
| 888.80          | 0.021 |
| 884.00          | 0.007 |
| 878.40          | 0.019 |
| 872.80          | 0.006 |
| 868.00          | 0.007 |
| 202.40          | 2.566 |

X-Y Pairs Table  
Data Interval

10.00

| Wavelength (nm) | Abs    | Wavelength (nm) | Abs   | Wavelength (nm) | Abs   |
|-----------------|--------|-----------------|-------|-----------------|-------|
| 900.00          | 0.002  | 660.00          | 0.002 | 420.00          | 0.020 |
| 890.00          | 0.003  | 650.00          | 0.003 | 410.00          | 0.024 |
| 880.00          | -0.012 | 640.00          | 0.004 | 400.00          | 0.029 |
| 870.00          | -0.003 | 630.00          | 0.004 | 390.00          | 0.034 |
| 860.00          | 0.001  | 620.00          | 0.004 | 380.00          | 0.039 |
| 850.00          | 0.001  | 610.00          | 0.004 | 370.00          | 0.047 |
| 840.00          | 0.001  | 600.00          | 0.004 | 360.00          | 0.056 |
| 830.00          | -0.001 | 590.00          | 0.004 | 350.00          | 0.059 |
| 820.00          | 0.000  | 580.00          | 0.005 | 340.00          | 0.073 |
| 810.00          | 0.000  | 570.00          | 0.005 | 330.00          | 0.085 |
| 800.00          | 0.002  | 560.00          | 0.004 | 320.00          | 0.098 |
| 790.00          | 0.000  | 550.00          | 0.005 | 310.00          | 0.111 |
| 780.00          | 0.002  | 540.00          | 0.006 | 300.00          | 0.130 |
| 770.00          | 0.000  | 530.00          | 0.006 | 290.00          | 0.151 |
| 760.00          | 0.001  | 520.00          | 0.006 | 280.00          | 0.174 |
| 750.00          | 0.000  | 510.00          | 0.006 | 270.00          | 0.199 |
| 740.00          | 0.001  | 500.00          | 0.007 | 260.00          | 0.218 |
| 730.00          | 0.000  | 490.00          | 0.007 | 250.00          | 0.236 |
| 720.00          | 0.001  | 480.00          | 0.008 | 240.00          | 0.262 |
| 710.00          | 0.001  | 470.00          | 0.009 | 230.00          | 0.311 |
| 700.00          | 0.003  | 460.00          | 0.010 | 220.00          | 0.414 |
| 690.00          | 0.002  | 450.00          | 0.012 | 210.00          | 1.413 |
| 680.00          | 0.002  | 440.00          | 0.014 | 200.00          | 2.611 |
| 670.00          | 0.002  | 430.00          | 0.017 |                 |       |

### Sample Name: Sample 9 Rack 1 Tube 9

Collection Time 10/16/2019 12:20:24 PM

Peak Table

Peak Style

Peak Threshold

Range

Peaks

0.0100

900.00nm to 200.00nm

| Wavelength (nm) | Abs   |
|-----------------|-------|
| 897.60          | 0.006 |
| 892.80          | 0.004 |
| 888.80          | 0.013 |
| 883.20          | 0.009 |
| 878.40          | 0.010 |
| 874.40          | 0.007 |

X-Y Pairs Table  
Data Interval

10.00

| Wavelength (nm) | Abs    | Wavelength (nm) | Abs   | Wavelength (nm) | Abs   |
|-----------------|--------|-----------------|-------|-----------------|-------|
| 900.00          | -0.003 | 660.00          | 0.000 | 420.00          | 0.007 |
| 890.00          | -0.001 | 650.00          | 0.001 | 410.00          | 0.009 |
| 880.00          | -0.005 | 640.00          | 0.001 | 400.00          | 0.012 |
| 870.00          | -0.003 | 630.00          | 0.001 | 390.00          | 0.015 |
| 860.00          | 0.001  | 620.00          | 0.001 | 380.00          | 0.017 |
| 850.00          | 0.001  | 610.00          | 0.001 | 370.00          | 0.018 |
| 840.00          | 0.001  | 600.00          | 0.001 | 360.00          | 0.022 |
| 830.00          | 0.000  | 590.00          | 0.001 | 350.00          | 0.023 |
| 820.00          | 0.002  | 580.00          | 0.001 | 340.00          | 0.030 |
| 810.00          | 0.001  | 570.00          | 0.001 | 330.00          | 0.034 |
| 800.00          | 0.001  | 560.00          | 0.002 | 320.00          | 0.035 |
| 790.00          | 0.001  | 550.00          | 0.002 | 310.00          | 0.042 |
| 780.00          | 0.003  | 540.00          | 0.002 | 300.00          | 0.052 |
| 770.00          | 0.000  | 530.00          | 0.002 | 290.00          | 0.059 |

|        |        |        |       |        |       |
|--------|--------|--------|-------|--------|-------|
| 760.00 | 0.000  | 520.00 | 0.002 | 280.00 | 0.068 |
| 750.00 | -0.001 | 510.00 | 0.002 | 270.00 | 0.080 |
| 740.00 | 0.000  | 500.00 | 0.001 | 260.00 | 0.089 |
| 730.00 | -0.001 | 490.00 | 0.001 | 250.00 | 0.094 |
| 720.00 | 0.000  | 480.00 | 0.000 | 240.00 | 0.104 |
| 710.00 | -0.001 | 470.00 | 0.001 | 230.00 | 0.117 |
| 700.00 | 0.001  | 460.00 | 0.002 | 220.00 | 0.137 |
| 690.00 | 0.000  | 450.00 | 0.003 | 210.00 | 0.161 |
| 680.00 | 0.000  | 440.00 | 0.005 | 200.00 | 0.193 |
| 670.00 | 0.001  | 430.00 | 0.006 |        |       |

**Sample Name: Sample 10 Rack 1 Tube 10**

Collection Time 10/16/2019 12:23:36 PM

Peak Table  
Peak Style Peaks  
Peak Threshold 0.0100  
Range 900.00nm to 200.00nm

| Wavelength (nm) | Abs   |
|-----------------|-------|
| 899.20          | 0.027 |
| 897.60          | 0.017 |
| 893.60          | 0.010 |
| 892.00          | 0.007 |
| 888.80          | 0.011 |
| 882.40          | 0.010 |
| 878.40          | 0.008 |
| 339.20          | 0.009 |

X-Y Pairs Table  
Data Interval 10.00

| Wavelength (nm) | Abs    | Wavelength (nm) | Abs    | Wavelength (nm) | Abs   |
|-----------------|--------|-----------------|--------|-----------------|-------|
| 900.00          | 0.002  | 660.00          | 0.000  | 420.00          | 0.001 |
| 890.00          | -0.003 | 650.00          | 0.000  | 410.00          | 0.002 |
| 880.00          | -0.007 | 640.00          | 0.001  | 400.00          | 0.003 |
| 870.00          | -0.002 | 630.00          | 0.001  | 390.00          | 0.003 |
| 860.00          | 0.002  | 620.00          | 0.001  | 380.00          | 0.002 |
| 850.00          | 0.002  | 610.00          | 0.001  | 370.00          | 0.003 |
| 840.00          | 0.000  | 600.00          | 0.001  | 360.00          | 0.005 |
| 830.00          | -0.001 | 590.00          | 0.000  | 350.00          | 0.001 |
| 820.00          | 0.001  | 580.00          | 0.001  | 340.00          | 0.007 |
| 810.00          | 0.000  | 570.00          | 0.001  | 330.00          | 0.007 |
| 800.00          | 0.000  | 560.00          | 0.000  | 320.00          | 0.007 |
| 790.00          | 0.000  | 550.00          | 0.001  | 310.00          | 0.006 |
| 780.00          | 0.001  | 540.00          | 0.001  | 300.00          | 0.008 |
| 770.00          | -0.001 | 530.00          | 0.001  | 290.00          | 0.009 |
| 760.00          | -0.001 | 520.00          | 0.000  | 280.00          | 0.012 |
| 750.00          | -0.001 | 510.00          | -0.001 | 270.00          | 0.015 |
| 740.00          | 0.000  | 500.00          | -0.001 | 260.00          | 0.013 |
| 730.00          | 0.000  | 490.00          | -0.001 | 250.00          | 0.016 |
| 720.00          | 0.000  | 480.00          | -0.001 | 240.00          | 0.019 |
| 710.00          | 0.000  | 470.00          | -0.002 | 230.00          | 0.018 |
| 700.00          | 0.002  | 460.00          | -0.001 | 220.00          | 0.024 |
| 690.00          | 0.001  | 450.00          | -0.001 | 210.00          | 0.030 |
| 680.00          | 0.001  | 440.00          | 0.001  | 200.00          | 0.045 |
| 670.00          | 0.001  | 430.00          | 0.001  |                 |       |

**Sample Name: Sample 11 Rack 1 Tube 11**

Collection Time 10/16/2019 12:26:48 PM

Peak Table  
Peak Style Peaks  
Peak Threshold 0.0100  
Range 900.00nm to 200.00nm

| Wavelength (nm) | Abs   |
|-----------------|-------|
| 897.60          | 0.012 |
| 891.20          | 0.017 |
| 888.00          | 0.009 |
| 885.60          | 0.009 |
| 880.80          | 0.006 |



|        |       |
|--------|-------|
| 878.40 | 0.011 |
| 872.00 | 0.006 |
| 352.00 | 0.006 |
| 346.40 | 0.009 |

X-Y Pairs Table  
Data Interval

10.00

| Wavelength (nm) | Abs    | Wavelength (nm) | Abs    | Wavelength (nm) | Abs    |
|-----------------|--------|-----------------|--------|-----------------|--------|
| 900.00          | 0.022  | 660.00          | 0.000  | 420.00          | 0.000  |
| 890.00          | -0.007 | 650.00          | 0.000  | 410.00          | 0.001  |
| 880.00          | -0.013 | 640.00          | 0.001  | 400.00          | 0.001  |
| 870.00          | 0.000  | 630.00          | 0.001  | 390.00          | 0.002  |
| 860.00          | 0.000  | 620.00          | 0.001  | 380.00          | 0.001  |
| 850.00          | 0.002  | 610.00          | 0.000  | 370.00          | 0.002  |
| 840.00          | -0.002 | 600.00          | 0.000  | 360.00          | 0.004  |
| 830.00          | -0.002 | 590.00          | 0.000  | 350.00          | 0.000  |
| 820.00          | 0.001  | 580.00          | 0.000  | 340.00          | 0.006  |
| 810.00          | 0.000  | 570.00          | 0.000  | 330.00          | 0.002  |
| 800.00          | 0.001  | 560.00          | -0.001 | 320.00          | -0.002 |
| 790.00          | 0.001  | 550.00          | 0.000  | 310.00          | -0.003 |
| 780.00          | 0.002  | 540.00          | 0.000  | 300.00          | 0.000  |
| 770.00          | -0.001 | 530.00          | 0.000  | 290.00          | -0.001 |
| 760.00          | 0.000  | 520.00          | -0.001 | 280.00          | 0.000  |
| 750.00          | -0.001 | 510.00          | -0.002 | 270.00          | 0.004  |
| 740.00          | -0.001 | 500.00          | -0.003 | 260.00          | 0.002  |
| 730.00          | -0.001 | 490.00          | -0.003 | 250.00          | 0.001  |
| 720.00          | -0.001 | 480.00          | -0.003 | 240.00          | 0.002  |
| 710.00          | -0.001 | 470.00          | -0.002 | 230.00          | 0.002  |
| 700.00          | 0.001  | 460.00          | -0.003 | 220.00          | 0.004  |
| 690.00          | 0.001  | 450.00          | -0.002 | 210.00          | 0.005  |
| 680.00          | 0.001  | 440.00          | 0.000  | 200.00          | 0.008  |
| 670.00          | 0.001  | 430.00          | 0.000  |                 |        |

**Sample Name: Sample 12 Rack 1 Tube 12**

Collection Time 10/16/2019 12:29:59 PM

## Peak Table

Peak Style

Peak Threshold

Range

Peaks

0.0100

900.00nm to 200.00nm

| Wavelength (nm) | Abs   |
|-----------------|-------|
| 897.60          | 0.018 |
| 890.40          | 0.015 |
| 888.80          | 0.020 |
| 878.40          | 0.007 |

X-Y Pairs Table  
Data Interval

10.00

| Wavelength (nm) | Abs    | Wavelength (nm) | Abs   | Wavelength (nm) | Abs   |
|-----------------|--------|-----------------|-------|-----------------|-------|
| 900.00          | 0.020  | 660.00          | 0.002 | 420.00          | 0.017 |
| 890.00          | 0.007  | 650.00          | 0.003 | 410.00          | 0.020 |
| 880.00          | -0.009 | 640.00          | 0.003 | 400.00          | 0.024 |
| 870.00          | -0.001 | 630.00          | 0.003 | 390.00          | 0.030 |
| 860.00          | 0.003  | 620.00          | 0.003 | 380.00          | 0.036 |
| 850.00          | 0.002  | 610.00          | 0.002 | 370.00          | 0.043 |
| 840.00          | 0.000  | 600.00          | 0.003 | 360.00          | 0.051 |
| 830.00          | 0.000  | 590.00          | 0.003 | 350.00          | 0.054 |
| 820.00          | 0.001  | 580.00          | 0.004 | 340.00          | 0.071 |
| 810.00          | 0.001  | 570.00          | 0.004 | 330.00          | 0.078 |
| 800.00          | 0.003  | 560.00          | 0.004 | 320.00          | 0.091 |
| 790.00          | 0.002  | 550.00          | 0.005 | 310.00          | 0.100 |
| 780.00          | 0.003  | 540.00          | 0.005 | 300.00          | 0.119 |
| 770.00          | 0.001  | 530.00          | 0.005 | 290.00          | 0.136 |
| 760.00          | 0.003  | 520.00          | 0.004 | 280.00          | 0.152 |
| 750.00          | 0.001  | 510.00          | 0.004 | 270.00          | 0.175 |
| 740.00          | 0.002  | 500.00          | 0.004 | 260.00          | 0.194 |
| 730.00          | 0.001  | 490.00          | 0.004 | 250.00          | 0.206 |
| 720.00          | 0.002  | 480.00          | 0.005 | 240.00          | 0.227 |
| 710.00          | 0.002  | 470.00          | 0.006 | 230.00          | 0.259 |
| 700.00          | 0.002  | 460.00          | 0.007 | 220.00          | 0.298 |
| 690.00          | 0.002  | 450.00          | 0.009 | 210.00          | 0.345 |
| 680.00          | 0.002  | 440.00          | 0.012 | 200.00          | 0.384 |

670.00 0.002 430.00 0.015

**Sample Name: Sample 13 Rack 1 Tube 13**

Collection Time 10/16/2019 12:33:11 PM

## Peak Table

Peak Style

Peak Threshold

Range

Peaks

0.0100

900.00nm to 200.00nm

| Wavelength (nm) | Abs   |
|-----------------|-------|
| 899.20          | 0.016 |
| 897.60          | 0.011 |
| 894.40          | 0.010 |
| 888.80          | 0.012 |
| 887.20          | 0.014 |
| 885.60          | 0.019 |
| 884.00          | 0.009 |
| 878.40          | 0.010 |

## X-Y Pairs Table

Data Interval

10.00

| Wavelength (nm) | Abs    | Wavelength (nm) | Abs   | Wavelength (nm) | Abs   |
|-----------------|--------|-----------------|-------|-----------------|-------|
| 900.00          | -0.003 | 660.00          | 0.001 | 420.00          | 0.018 |
| 890.00          | 0.001  | 650.00          | 0.002 | 410.00          | 0.022 |
| 880.00          | -0.001 | 640.00          | 0.002 | 400.00          | 0.026 |
| 870.00          | -0.003 | 630.00          | 0.003 | 390.00          | 0.031 |
| 860.00          | 0.004  | 620.00          | 0.003 | 380.00          | 0.036 |
| 850.00          | 0.002  | 610.00          | 0.003 | 370.00          | 0.043 |
| 840.00          | -0.001 | 600.00          | 0.003 | 360.00          | 0.052 |
| 830.00          | -0.003 | 590.00          | 0.003 | 350.00          | 0.059 |
| 820.00          | 0.000  | 580.00          | 0.003 | 340.00          | 0.072 |
| 810.00          | 0.001  | 570.00          | 0.004 | 330.00          | 0.081 |
| 800.00          | 0.002  | 560.00          | 0.004 | 320.00          | 0.090 |
| 790.00          | 0.002  | 550.00          | 0.004 | 310.00          | 0.102 |
| 780.00          | 0.003  | 540.00          | 0.005 | 300.00          | 0.120 |
| 770.00          | 0.001  | 530.00          | 0.005 | 290.00          | 0.139 |
| 760.00          | 0.002  | 520.00          | 0.004 | 280.00          | 0.159 |
| 750.00          | 0.001  | 510.00          | 0.004 | 270.00          | 0.180 |
| 740.00          | 0.001  | 500.00          | 0.004 | 260.00          | 0.197 |
| 730.00          | 0.001  | 490.00          | 0.004 | 250.00          | 0.212 |
| 720.00          | 0.002  | 480.00          | 0.004 | 240.00          | 0.237 |
| 710.00          | 0.000  | 470.00          | 0.005 | 230.00          | 0.268 |
| 700.00          | 0.002  | 460.00          | 0.007 | 220.00          | 0.307 |
| 690.00          | 0.001  | 450.00          | 0.010 | 210.00          | 0.358 |
| 680.00          | 0.001  | 440.00          | 0.012 | 200.00          | 0.404 |
| 670.00          | 0.001  | 430.00          | 0.016 |                 |       |

**Sample Name: Sample 14 Rack 1 Tube 14**

Collection Time 10/16/2019 12:36:24 PM

## Peak Table

Peak Style

Peak Threshold

Range

Peaks

0.0100

900.00nm to 200.00nm

| Wavelength (nm) | Abs   |
|-----------------|-------|
| 897.60          | 0.018 |
| 893.60          | 0.013 |
| 891.20          | 0.015 |
| 888.80          | 0.017 |
| 884.00          | 0.010 |
| 874.40          | 0.010 |
| 202.40          | 0.948 |

## X-Y Pairs Table

Data Interval

10.00

| Wavelength (nm) | Abs   | Wavelength (nm) | Abs   | Wavelength (nm) | Abs   |
|-----------------|-------|-----------------|-------|-----------------|-------|
| 900.00          | 0.011 | 660.00          | 0.005 | 420.00          | 0.053 |

|        |        |        |       |        |       |
|--------|--------|--------|-------|--------|-------|
| 890.00 | -0.001 | 650.00 | 0.005 | 410.00 | 0.062 |
| 880.00 | -0.006 | 640.00 | 0.007 | 400.00 | 0.073 |
| 870.00 | -0.001 | 630.00 | 0.007 | 390.00 | 0.087 |
| 860.00 | 0.001  | 620.00 | 0.007 | 380.00 | 0.102 |
| 850.00 | 0.002  | 610.00 | 0.008 | 370.00 | 0.119 |
| 840.00 | 0.000  | 600.00 | 0.009 | 360.00 | 0.141 |
| 830.00 | 0.001  | 590.00 | 0.009 | 350.00 | 0.158 |
| 820.00 | 0.002  | 580.00 | 0.010 | 340.00 | 0.188 |
| 810.00 | 0.003  | 570.00 | 0.011 | 330.00 | 0.216 |
| 800.00 | 0.003  | 560.00 | 0.012 | 320.00 | 0.239 |
| 790.00 | 0.004  | 550.00 | 0.013 | 310.00 | 0.274 |
| 780.00 | 0.005  | 540.00 | 0.014 | 300.00 | 0.315 |
| 770.00 | 0.003  | 530.00 | 0.015 | 290.00 | 0.361 |
| 760.00 | 0.004  | 520.00 | 0.016 | 280.00 | 0.410 |
| 750.00 | 0.003  | 510.00 | 0.017 | 270.00 | 0.462 |
| 740.00 | 0.003  | 500.00 | 0.018 | 260.00 | 0.505 |
| 730.00 | 0.002  | 490.00 | 0.020 | 250.00 | 0.538 |
| 720.00 | 0.003  | 480.00 | 0.022 | 240.00 | 0.599 |
| 710.00 | 0.002  | 470.00 | 0.025 | 230.00 | 0.681 |
| 700.00 | 0.003  | 460.00 | 0.029 | 220.00 | 0.774 |
| 690.00 | 0.003  | 450.00 | 0.033 | 210.00 | 0.883 |
| 680.00 | 0.004  | 440.00 | 0.039 | 200.00 | 0.945 |
| 670.00 | 0.005  | 430.00 | 0.046 |        |       |

**Sample Name: Sample 15 Rack 1 Tube 15**

Collection Time 10/16/2019 12:39:35 PM

## Peak Table

Peak Style

Peak Threshold

Range

Peaks

0.0100

900.00nm to 200.00nm

| Wavelength (nm) | Abs   |
|-----------------|-------|
| 897.60          | 0.011 |
| 893.60          | 0.002 |
| 888.80          | 0.010 |
| 885.60          | 0.006 |
| 884.00          | 0.013 |
| 874.40          | 0.009 |
| 338.40          | 0.011 |

## X-Y Pairs Table

Data Interval

10.00

| Wavelength (nm) | Abs    | Wavelength (nm) | Abs    | Wavelength (nm) | Abs    |
|-----------------|--------|-----------------|--------|-----------------|--------|
| 900.00          | 0.010  | 660.00          | 0.001  | 420.00          | -0.001 |
| 890.00          | -0.004 | 650.00          | 0.001  | 410.00          | 0.001  |
| 880.00          | 0.000  | 640.00          | 0.002  | 400.00          | 0.001  |
| 870.00          | -0.001 | 630.00          | 0.001  | 390.00          | 0.003  |
| 860.00          | 0.004  | 620.00          | 0.002  | 380.00          | 0.003  |
| 850.00          | 0.004  | 610.00          | 0.001  | 370.00          | 0.003  |
| 840.00          | 0.000  | 600.00          | 0.001  | 360.00          | 0.003  |
| 830.00          | -0.001 | 590.00          | 0.001  | 350.00          | -0.001 |
| 820.00          | 0.001  | 580.00          | 0.001  | 340.00          | 0.007  |
| 810.00          | 0.001  | 570.00          | 0.002  | 330.00          | 0.004  |
| 800.00          | 0.002  | 560.00          | 0.001  | 320.00          | 0.002  |
| 790.00          | 0.002  | 550.00          | 0.001  | 310.00          | 0.003  |
| 780.00          | 0.004  | 540.00          | 0.002  | 300.00          | 0.004  |
| 770.00          | 0.002  | 530.00          | 0.001  | 290.00          | 0.005  |
| 760.00          | 0.001  | 520.00          | 0.000  | 280.00          | 0.005  |
| 750.00          | 0.002  | 510.00          | -0.001 | 270.00          | 0.009  |
| 740.00          | 0.002  | 500.00          | -0.002 | 260.00          | 0.009  |
| 730.00          | 0.001  | 490.00          | -0.002 | 250.00          | 0.011  |
| 720.00          | 0.002  | 480.00          | -0.002 | 240.00          | 0.013  |
| 710.00          | 0.001  | 470.00          | -0.002 | 230.00          | 0.014  |
| 700.00          | 0.002  | 460.00          | -0.002 | 220.00          | 0.018  |
| 690.00          | 0.002  | 450.00          | -0.001 | 210.00          | 0.022  |
| 680.00          | 0.002  | 440.00          | -0.001 | 200.00          | 0.032  |
| 670.00          | 0.002  | 430.00          | 0.000  |                 |        |

**Sample Name: Sample 16 Rack 1 Tube 16**

Collection Time 10/16/2019 12:42:47 PM

Peak Table  
 Peak Style Peaks  
 Peak Threshold 0.0100  
 Range 900.00nm to 200.00nm

| Wavelength (nm) | Abs   |
|-----------------|-------|
| 893.60          | 0.014 |
| 891.20          | 0.016 |
| 888.80          | 0.014 |
| 883.20          | 0.010 |
| 880.80          | 0.004 |
| 878.40          | 0.011 |
| 876.00          | 0.008 |
| 346.40          | 0.014 |

X-Y Pairs Table  
 Data Interval 10.00

| Wavelength (nm) | Abs    | Wavelength (nm) | Abs    | Wavelength (nm) | Abs    |
|-----------------|--------|-----------------|--------|-----------------|--------|
| 900.00          | 0.016  | 660.00          | 0.000  | 420.00          | -0.001 |
| 890.00          | -0.003 | 650.00          | 0.000  | 410.00          | 0.000  |
| 880.00          | -0.004 | 640.00          | 0.001  | 400.00          | 0.001  |
| 870.00          | -0.005 | 630.00          | 0.000  | 390.00          | 0.002  |
| 860.00          | 0.004  | 620.00          | 0.000  | 380.00          | 0.002  |
| 850.00          | 0.002  | 610.00          | 0.000  | 370.00          | 0.003  |
| 840.00          | -0.002 | 600.00          | 0.000  | 360.00          | 0.003  |
| 830.00          | 0.000  | 590.00          | 0.000  | 350.00          | 0.001  |
| 820.00          | 0.000  | 580.00          | 0.000  | 340.00          | 0.008  |
| 810.00          | 0.001  | 570.00          | 0.001  | 330.00          | 0.007  |
| 800.00          | 0.001  | 560.00          | 0.000  | 320.00          | 0.004  |
| 790.00          | 0.000  | 550.00          | 0.001  | 310.00          | 0.005  |
| 780.00          | 0.001  | 540.00          | 0.000  | 300.00          | 0.007  |
| 770.00          | 0.000  | 530.00          | 0.000  | 290.00          | 0.007  |
| 760.00          | 0.001  | 520.00          | -0.001 | 280.00          | 0.008  |
| 750.00          | -0.001 | 510.00          | -0.002 | 270.00          | 0.013  |
| 740.00          | -0.001 | 500.00          | -0.002 | 260.00          | 0.012  |
| 730.00          | -0.001 | 490.00          | -0.003 | 250.00          | 0.011  |
| 720.00          | 0.000  | 480.00          | -0.003 | 240.00          | 0.013  |
| 710.00          | -0.001 | 470.00          | -0.003 | 230.00          | 0.014  |
| 700.00          | 0.000  | 460.00          | -0.003 | 220.00          | 0.020  |
| 690.00          | -0.001 | 450.00          | -0.002 | 210.00          | 0.028  |
| 680.00          | 0.000  | 440.00          | -0.002 | 200.00          | 0.038  |
| 670.00          | 0.000  | 430.00          | -0.001 |                 |        |

### Sample Name: Sample 17 Rack 1 Tube 17

Collection Time 10/16/2019 12:45:59 PM

Peak Table  
 Peak Style Peaks  
 Peak Threshold 0.0100  
 Range 900.00nm to 200.00nm

| Wavelength (nm) | Abs    |
|-----------------|--------|
| 899.20          | 0.026  |
| 896.80          | -0.001 |
| 893.60          | 0.014  |
| 891.20          | 0.014  |
| 888.80          | 0.017  |
| 885.60          | 0.007  |
| 883.20          | 0.007  |
| 878.40          | 0.007  |
| 868.00          | 0.008  |

X-Y Pairs Table  
 Data Interval 10.00

| Wavelength (nm) | Abs    | Wavelength (nm) | Abs   | Wavelength (nm) | Abs   |
|-----------------|--------|-----------------|-------|-----------------|-------|
| 900.00          | 0.015  | 660.00          | 0.002 | 420.00          | 0.018 |
| 890.00          | 0.000  | 650.00          | 0.003 | 410.00          | 0.022 |
| 880.00          | -0.005 | 640.00          | 0.004 | 400.00          | 0.027 |
| 870.00          | -0.001 | 630.00          | 0.004 | 390.00          | 0.033 |
| 860.00          | 0.002  | 620.00          | 0.004 | 380.00          | 0.036 |
| 850.00          | 0.001  | 610.00          | 0.004 | 370.00          | 0.042 |
| 840.00          | 0.002  | 600.00          | 0.004 | 360.00          | 0.050 |

|        |       |        |       |        |       |
|--------|-------|--------|-------|--------|-------|
| 830.00 | 0.001 | 590.00 | 0.005 | 350.00 | 0.053 |
| 820.00 | 0.002 | 580.00 | 0.005 | 340.00 | 0.071 |
| 810.00 | 0.002 | 570.00 | 0.006 | 330.00 | 0.078 |
| 800.00 | 0.002 | 560.00 | 0.006 | 320.00 | 0.088 |
| 790.00 | 0.002 | 550.00 | 0.006 | 310.00 | 0.098 |
| 780.00 | 0.002 | 540.00 | 0.007 | 300.00 | 0.117 |
| 770.00 | 0.001 | 530.00 | 0.007 | 290.00 | 0.137 |
| 760.00 | 0.001 | 520.00 | 0.006 | 280.00 | 0.158 |
| 750.00 | 0.001 | 510.00 | 0.005 | 270.00 | 0.181 |
| 740.00 | 0.002 | 500.00 | 0.005 | 260.00 | 0.198 |
| 730.00 | 0.001 | 490.00 | 0.005 | 250.00 | 0.209 |
| 720.00 | 0.003 | 480.00 | 0.005 | 240.00 | 0.228 |
| 710.00 | 0.002 | 470.00 | 0.006 | 230.00 | 0.263 |
| 700.00 | 0.003 | 460.00 | 0.008 | 220.00 | 0.315 |
| 690.00 | 0.003 | 450.00 | 0.010 | 210.00 | 0.378 |
| 680.00 | 0.002 | 440.00 | 0.013 | 200.00 | 0.428 |
| 670.00 | 0.002 | 430.00 | 0.017 |        |       |

**Sample Name: Sample 18 Rack 1 Tube 18**

Collection Time 10/16/2019 12:49:11 PM

## Peak Table

Peak Style

Peak Threshold

Range

Peaks

0.0100

900.00nm to 200.00nm

| Wavelength (nm) | Abs   |
|-----------------|-------|
| 899.20          | 0.025 |
| 897.60          | 0.003 |
| 893.60          | 0.009 |
| 891.20          | 0.020 |
| 888.80          | 0.008 |
| 886.40          | 0.012 |
| 884.00          | 0.013 |
| 878.40          | 0.012 |

## X-Y Pairs Table

Data Interval

10.00

| Wavelength (nm) | Abs    | Wavelength (nm) | Abs    | Wavelength (nm) | Abs   |
|-----------------|--------|-----------------|--------|-----------------|-------|
| 900.00          | 0.004  | 660.00          | 0.000  | 420.00          | 0.006 |
| 890.00          | -0.003 | 650.00          | 0.001  | 410.00          | 0.009 |
| 880.00          | -0.008 | 640.00          | 0.002  | 400.00          | 0.012 |
| 870.00          | -0.004 | 630.00          | 0.001  | 390.00          | 0.015 |
| 860.00          | 0.005  | 620.00          | 0.002  | 380.00          | 0.018 |
| 850.00          | 0.004  | 610.00          | 0.001  | 370.00          | 0.021 |
| 840.00          | 0.001  | 600.00          | 0.001  | 360.00          | 0.027 |
| 830.00          | 0.000  | 590.00          | 0.001  | 350.00          | 0.028 |
| 820.00          | 0.004  | 580.00          | 0.002  | 340.00          | 0.039 |
| 810.00          | 0.001  | 570.00          | 0.002  | 330.00          | 0.042 |
| 800.00          | 0.002  | 560.00          | 0.002  | 320.00          | 0.044 |
| 790.00          | 0.002  | 550.00          | 0.003  | 310.00          | 0.051 |
| 780.00          | 0.002  | 540.00          | 0.003  | 300.00          | 0.058 |
| 770.00          | 0.000  | 530.00          | 0.003  | 290.00          | 0.067 |
| 760.00          | 0.001  | 520.00          | 0.001  | 280.00          | 0.076 |
| 750.00          | 0.000  | 510.00          | 0.000  | 270.00          | 0.088 |
| 740.00          | 0.000  | 500.00          | 0.000  | 260.00          | 0.098 |
| 730.00          | 0.000  | 490.00          | -0.001 | 250.00          | 0.106 |
| 720.00          | 0.000  | 480.00          | -0.001 | 240.00          | 0.118 |
| 710.00          | 0.000  | 470.00          | -0.001 | 230.00          | 0.132 |
| 700.00          | 0.001  | 460.00          | -0.001 | 220.00          | 0.149 |
| 690.00          | 0.001  | 450.00          | 0.001  | 210.00          | 0.169 |
| 680.00          | 0.001  | 440.00          | 0.003  | 200.00          | 0.191 |
| 670.00          | 0.001  | 430.00          | 0.005  |                 |       |

**Sample Name: Sample 19 Rack 1 Tube 19**

Collection Time 10/16/2019 12:52:24 PM

## Peak Table

Peak Style

Peak Threshold

Range

Peaks

0.0100

900.00nm to 200.00nm

| Wavelength (nm) | Abs   |
|-----------------|-------|
| 896.80          | 0.023 |
| 891.20          | 0.019 |
| 888.80          | 0.009 |
| 885.60          | 0.017 |
| 884.00          | 0.011 |
| 880.80          | 0.010 |
| 878.40          | 0.014 |
| 872.80          | 0.010 |

## X-Y Pairs Table

Data Interval 10.00

| Wavelength (nm) | Abs    | Wavelength (nm) | Abs   | Wavelength (nm) | Abs   |
|-----------------|--------|-----------------|-------|-----------------|-------|
| 900.00          | 0.008  | 660.00          | 0.002 | 420.00          | 0.029 |
| 890.00          | 0.000  | 650.00          | 0.003 | 410.00          | 0.035 |
| 880.00          | -0.013 | 640.00          | 0.004 | 400.00          | 0.042 |
| 870.00          | 0.002  | 630.00          | 0.004 | 390.00          | 0.050 |
| 860.00          | 0.003  | 620.00          | 0.003 | 380.00          | 0.059 |
| 850.00          | 0.002  | 610.00          | 0.004 | 370.00          | 0.070 |
| 840.00          | 0.001  | 600.00          | 0.004 | 360.00          | 0.084 |
| 830.00          | 0.002  | 590.00          | 0.004 | 350.00          | 0.092 |
| 820.00          | 0.003  | 580.00          | 0.005 | 340.00          | 0.114 |
| 810.00          | 0.002  | 570.00          | 0.005 | 330.00          | 0.130 |
| 800.00          | 0.002  | 560.00          | 0.006 | 320.00          | 0.146 |
| 790.00          | 0.002  | 550.00          | 0.006 | 310.00          | 0.167 |
| 780.00          | 0.002  | 540.00          | 0.007 | 300.00          | 0.193 |
| 770.00          | 0.000  | 530.00          | 0.008 | 290.00          | 0.218 |
| 760.00          | 0.001  | 520.00          | 0.008 | 280.00          | 0.249 |
| 750.00          | 0.001  | 510.00          | 0.008 | 270.00          | 0.280 |
| 740.00          | 0.002  | 500.00          | 0.008 | 260.00          | 0.304 |
| 730.00          | 0.001  | 490.00          | 0.009 | 250.00          | 0.327 |
| 720.00          | 0.001  | 480.00          | 0.011 | 240.00          | 0.365 |
| 710.00          | 0.000  | 470.00          | 0.012 | 230.00          | 0.418 |
| 700.00          | 0.003  | 460.00          | 0.014 | 220.00          | 0.481 |
| 690.00          | 0.002  | 450.00          | 0.017 | 210.00          | 0.553 |
| 680.00          | 0.002  | 440.00          | 0.022 | 200.00          | 0.610 |
| 670.00          | 0.002  | 430.00          | 0.026 |                 |       |

**Sample Name: Sample 20 Rack 1 Tube 20**

Collection Time 10/16/2019 12:55:36 PM

## Peak Table

Peak Style Peaks  
 Peak Threshold 0.0100  
 Range 900.00nm to 200.00nm

| Wavelength (nm) | Abs   |
|-----------------|-------|
| 896.00          | 0.015 |
| 894.40          | 0.011 |
| 891.20          | 0.014 |
| 888.00          | 0.015 |
| 884.00          | 0.011 |
| 880.80          | 0.011 |
| 878.40          | 0.018 |
| 874.40          | 0.010 |

## X-Y Pairs Table

Data Interval 10.00

| Wavelength (nm) | Abs    | Wavelength (nm) | Abs   | Wavelength (nm) | Abs   |
|-----------------|--------|-----------------|-------|-----------------|-------|
| 900.00          | 0.022  | 660.00          | 0.003 | 420.00          | 0.017 |
| 890.00          | 0.002  | 650.00          | 0.003 | 410.00          | 0.020 |
| 880.00          | -0.010 | 640.00          | 0.004 | 400.00          | 0.025 |
| 870.00          | -0.002 | 630.00          | 0.004 | 390.00          | 0.030 |
| 860.00          | 0.002  | 620.00          | 0.003 | 380.00          | 0.034 |
| 850.00          | 0.002  | 610.00          | 0.003 | 370.00          | 0.040 |
| 840.00          | 0.000  | 600.00          | 0.004 | 360.00          | 0.050 |
| 830.00          | 0.001  | 590.00          | 0.004 | 350.00          | 0.051 |
| 820.00          | 0.001  | 580.00          | 0.004 | 340.00          | 0.071 |
| 810.00          | 0.003  | 570.00          | 0.005 | 330.00          | 0.080 |
| 800.00          | 0.001  | 560.00          | 0.004 | 320.00          | 0.087 |
| 790.00          | 0.001  | 550.00          | 0.005 | 310.00          | 0.102 |
| 780.00          | 0.003  | 540.00          | 0.006 | 300.00          | 0.116 |

|        |       |        |       |        |       |
|--------|-------|--------|-------|--------|-------|
| 770.00 | 0.001 | 530.00 | 0.006 | 290.00 | 0.132 |
| 760.00 | 0.002 | 520.00 | 0.005 | 280.00 | 0.152 |
| 750.00 | 0.002 | 510.00 | 0.004 | 270.00 | 0.176 |
| 740.00 | 0.002 | 500.00 | 0.004 | 260.00 | 0.190 |
| 730.00 | 0.002 | 490.00 | 0.004 | 250.00 | 0.205 |
| 720.00 | 0.004 | 480.00 | 0.004 | 240.00 | 0.225 |
| 710.00 | 0.003 | 470.00 | 0.005 | 230.00 | 0.258 |
| 700.00 | 0.005 | 460.00 | 0.006 | 220.00 | 0.297 |
| 690.00 | 0.004 | 450.00 | 0.009 | 210.00 | 0.341 |
| 680.00 | 0.004 | 440.00 | 0.012 | 200.00 | 0.379 |
| 670.00 | 0.004 | 430.00 | 0.015 |        |       |

**Sample Name: Sample 21 Rack 1 Tube 21**

Collection Time 10/16/2019 12:58:48 PM

## Peak Table

Peak Style

Peak Threshold

Range

## Peaks

0.0100

900.00nm to 200.00nm

| Wavelength (nm) | Abs   |
|-----------------|-------|
| 897.60          | 0.026 |
| 893.60          | 0.006 |
| 890.40          | 0.010 |
| 884.00          | 0.009 |
| 878.40          | 0.014 |
| 338.40          | 0.011 |

## X-Y Pairs Table

Data Interval

10.00

| Wavelength (nm) | Abs    | Wavelength (nm) | Abs    | Wavelength (nm) | Abs    |
|-----------------|--------|-----------------|--------|-----------------|--------|
| 900.00          | 0.013  | 660.00          | 0.000  | 420.00          | 0.000  |
| 890.00          | 0.004  | 650.00          | 0.001  | 410.00          | 0.000  |
| 880.00          | 0.000  | 640.00          | 0.002  | 400.00          | 0.001  |
| 870.00          | -0.001 | 630.00          | 0.002  | 390.00          | 0.002  |
| 860.00          | 0.003  | 620.00          | 0.001  | 380.00          | 0.001  |
| 850.00          | 0.002  | 610.00          | 0.001  | 370.00          | 0.001  |
| 840.00          | 0.002  | 600.00          | 0.002  | 360.00          | 0.003  |
| 830.00          | 0.000  | 590.00          | 0.002  | 350.00          | -0.001 |
| 820.00          | 0.002  | 580.00          | 0.002  | 340.00          | 0.003  |
| 810.00          | 0.001  | 570.00          | 0.002  | 330.00          | 0.005  |
| 800.00          | 0.001  | 560.00          | 0.002  | 320.00          | 0.005  |
| 790.00          | 0.002  | 550.00          | 0.002  | 310.00          | 0.004  |
| 780.00          | 0.002  | 540.00          | 0.002  | 300.00          | 0.005  |
| 770.00          | 0.001  | 530.00          | 0.001  | 290.00          | 0.003  |
| 760.00          | 0.001  | 520.00          | 0.000  | 280.00          | 0.003  |
| 750.00          | 0.000  | 510.00          | -0.001 | 270.00          | 0.006  |
| 740.00          | 0.001  | 500.00          | -0.001 | 260.00          | 0.004  |
| 730.00          | 0.001  | 490.00          | -0.002 | 250.00          | 0.005  |
| 720.00          | 0.001  | 480.00          | -0.002 | 240.00          | 0.005  |
| 710.00          | 0.001  | 470.00          | -0.002 | 230.00          | 0.006  |
| 700.00          | 0.001  | 460.00          | -0.001 | 220.00          | 0.007  |
| 690.00          | 0.001  | 450.00          | 0.000  | 210.00          | 0.007  |
| 680.00          | 0.001  | 440.00          | 0.001  | 200.00          | 0.007  |
| 670.00          | 0.001  | 430.00          | 0.001  |                 |        |

**Sample Name: Sample 22 Rack 1 Tube 22**

Collection Time 10/16/2019 1:02:00 PM

## Peak Table

Peak Style

Peak Threshold

Range

## Peaks

0.0100

900.00nm to 200.00nm

| Wavelength (nm) | Abs   |
|-----------------|-------|
| 899.20          | 0.028 |
| 897.60          | 0.015 |
| 896.00          | 0.008 |
| 893.60          | 0.015 |
| 891.20          | 0.019 |
| 888.80          | 0.016 |

|        |       |
|--------|-------|
| 880.80 | 0.008 |
| 878.40 | 0.011 |
| 868.00 | 0.010 |

## X-Y Pairs Table

Data Interval 10.00

| Wavelength (nm) | Abs    | Wavelength (nm) | Abs   | Wavelength (nm) | Abs   |
|-----------------|--------|-----------------|-------|-----------------|-------|
| 900.00          | 0.010  | 660.00          | 0.006 | 420.00          | 0.035 |
| 890.00          | 0.004  | 650.00          | 0.006 | 410.00          | 0.040 |
| 880.00          | -0.005 | 640.00          | 0.007 | 400.00          | 0.047 |
| 870.00          | 0.003  | 630.00          | 0.007 | 390.00          | 0.054 |
| 860.00          | 0.004  | 620.00          | 0.007 | 380.00          | 0.063 |
| 850.00          | 0.002  | 610.00          | 0.007 | 370.00          | 0.074 |
| 840.00          | 0.002  | 600.00          | 0.008 | 360.00          | 0.086 |
| 830.00          | 0.002  | 590.00          | 0.008 | 350.00          | 0.096 |
| 820.00          | 0.004  | 580.00          | 0.008 | 340.00          | 0.118 |
| 810.00          | 0.004  | 570.00          | 0.009 | 330.00          | 0.135 |
| 800.00          | 0.004  | 560.00          | 0.010 | 320.00          | 0.150 |
| 790.00          | 0.003  | 550.00          | 0.011 | 310.00          | 0.171 |
| 780.00          | 0.004  | 540.00          | 0.011 | 300.00          | 0.196 |
| 770.00          | 0.003  | 530.00          | 0.012 | 290.00          | 0.224 |
| 760.00          | 0.004  | 520.00          | 0.012 | 280.00          | 0.254 |
| 750.00          | 0.003  | 510.00          | 0.012 | 270.00          | 0.289 |
| 740.00          | 0.004  | 500.00          | 0.013 | 260.00          | 0.316 |
| 730.00          | 0.004  | 490.00          | 0.014 | 250.00          | 0.340 |
| 720.00          | 0.004  | 480.00          | 0.015 | 240.00          | 0.375 |
| 710.00          | 0.004  | 470.00          | 0.017 | 230.00          | 0.428 |
| 700.00          | 0.005  | 460.00          | 0.020 | 220.00          | 0.483 |
| 690.00          | 0.004  | 450.00          | 0.023 | 210.00          | 0.550 |
| 680.00          | 0.005  | 440.00          | 0.027 | 200.00          | 0.597 |
| 670.00          | 0.006  | 430.00          | 0.031 |                 |       |

**Sample Name: Sample 23 Rack 1 Tube 23**

Collection Time 10/16/2019 1:05:11 PM

## Peak Table

Peak Style

Peak Threshold

Range

Peaks

0.0100

900.00nm to 200.00nm

| Wavelength (nm) | Abs   |
|-----------------|-------|
| 897.60          | 0.013 |
| 892.80          | 0.005 |
| 890.40          | 0.011 |
| 888.80          | 0.024 |
| 885.60          | 0.016 |
| 876.00          | 0.010 |
| 861.60          | 0.009 |

## X-Y Pairs Table

Data Interval 10.00

| Wavelength (nm) | Abs   | Wavelength (nm) | Abs   | Wavelength (nm) | Abs   |
|-----------------|-------|-----------------|-------|-----------------|-------|
| 900.00          | 0.014 | 660.00          | 0.003 | 420.00          | 0.018 |
| 890.00          | 0.005 | 650.00          | 0.003 | 410.00          | 0.023 |
| 880.00          | 0.002 | 640.00          | 0.004 | 400.00          | 0.028 |
| 870.00          | 0.001 | 630.00          | 0.004 | 390.00          | 0.033 |
| 860.00          | 0.003 | 620.00          | 0.004 | 380.00          | 0.038 |
| 850.00          | 0.002 | 610.00          | 0.004 | 370.00          | 0.045 |
| 840.00          | 0.003 | 600.00          | 0.005 | 360.00          | 0.054 |
| 830.00          | 0.002 | 590.00          | 0.005 | 350.00          | 0.060 |
| 820.00          | 0.004 | 580.00          | 0.005 | 340.00          | 0.076 |
| 810.00          | 0.004 | 570.00          | 0.005 | 330.00          | 0.085 |
| 800.00          | 0.003 | 560.00          | 0.004 | 320.00          | 0.098 |
| 790.00          | 0.003 | 550.00          | 0.005 | 310.00          | 0.110 |
| 780.00          | 0.004 | 540.00          | 0.005 | 300.00          | 0.126 |
| 770.00          | 0.002 | 530.00          | 0.006 | 290.00          | 0.143 |
| 760.00          | 0.002 | 520.00          | 0.005 | 280.00          | 0.163 |
| 750.00          | 0.002 | 510.00          | 0.005 | 270.00          | 0.187 |
| 740.00          | 0.003 | 500.00          | 0.005 | 260.00          | 0.205 |
| 730.00          | 0.002 | 490.00          | 0.006 | 250.00          | 0.221 |
| 720.00          | 0.002 | 480.00          | 0.007 | 240.00          | 0.245 |
| 710.00          | 0.002 | 470.00          | 0.008 | 230.00          | 0.275 |
| 700.00          | 0.004 | 460.00          | 0.009 | 220.00          | 0.314 |



|        |       |        |       |        |       |
|--------|-------|--------|-------|--------|-------|
| 690.00 | 0.002 | 450.00 | 0.012 | 210.00 | 0.365 |
| 680.00 | 0.002 | 440.00 | 0.014 | 200.00 | 0.403 |
| 670.00 | 0.002 | 430.00 | 0.017 |        |       |

**Sample Name: Sample 24 Rack 1 Tube 24**

Collection Time 10/16/2019 1:08:23 PM

Peak Table  
Peak Style Peaks  
Peak Threshold 0.0100  
Range 900.00nm to 200.00nm

| Wavelength (nm) | Abs   |
|-----------------|-------|
| 897.60          | 0.020 |
| 896.00          | 0.012 |
| 893.60          | 0.008 |
| 891.20          | 0.011 |
| 888.00          | 0.015 |
| 884.00          | 0.005 |
| 878.40          | 0.010 |
| 876.00          | 0.010 |
| 868.00          | 0.006 |

X-Y Pairs Table  
Data Interval 10.00

| Wavelength (nm) | Abs    | Wavelength (nm) | Abs   | Wavelength (nm) | Abs   |
|-----------------|--------|-----------------|-------|-----------------|-------|
| 900.00          | 0.034  | 660.00          | 0.003 | 420.00          | 0.025 |
| 890.00          | 0.000  | 650.00          | 0.003 | 410.00          | 0.029 |
| 880.00          | -0.006 | 640.00          | 0.005 | 400.00          | 0.034 |
| 870.00          | -0.001 | 630.00          | 0.004 | 390.00          | 0.039 |
| 860.00          | 0.003  | 620.00          | 0.005 | 380.00          | 0.044 |
| 850.00          | 0.003  | 610.00          | 0.004 | 370.00          | 0.052 |
| 840.00          | 0.004  | 600.00          | 0.005 | 360.00          | 0.063 |
| 830.00          | 0.001  | 590.00          | 0.005 | 350.00          | 0.068 |
| 820.00          | 0.004  | 580.00          | 0.006 | 340.00          | 0.085 |
| 810.00          | 0.004  | 570.00          | 0.006 | 330.00          | 0.096 |
| 800.00          | 0.004  | 560.00          | 0.005 | 320.00          | 0.105 |
| 790.00          | 0.004  | 550.00          | 0.006 | 310.00          | 0.122 |
| 780.00          | 0.004  | 540.00          | 0.007 | 300.00          | 0.141 |
| 770.00          | 0.002  | 530.00          | 0.007 | 290.00          | 0.162 |
| 760.00          | 0.004  | 520.00          | 0.008 | 280.00          | 0.185 |
| 750.00          | 0.002  | 510.00          | 0.008 | 270.00          | 0.206 |
| 740.00          | 0.004  | 500.00          | 0.009 | 260.00          | 0.226 |
| 730.00          | 0.002  | 490.00          | 0.010 | 250.00          | 0.244 |
| 720.00          | 0.003  | 480.00          | 0.011 | 240.00          | 0.269 |
| 710.00          | 0.003  | 470.00          | 0.013 | 230.00          | 0.305 |
| 700.00          | 0.004  | 460.00          | 0.014 | 220.00          | 0.349 |
| 690.00          | 0.003  | 450.00          | 0.016 | 210.00          | 0.405 |
| 680.00          | 0.003  | 440.00          | 0.018 | 200.00          | 0.448 |
| 670.00          | 0.003  | 430.00          | 0.022 |                 |       |

**Sample Name: Sample 25 Rack 1 Tube 25**

Collection Time 10/16/2019 1:11:35 PM

Peak Table  
Peak Style Peaks  
Peak Threshold 0.0100  
Range 900.00nm to 200.00nm

| Wavelength (nm) | Abs   |
|-----------------|-------|
| 899.20          | 0.017 |
| 897.60          | 0.021 |
| 891.20          | 0.013 |
| 888.80          | 0.011 |
| 885.60          | 0.010 |
| 878.40          | 0.013 |
| 874.40          | 0.011 |

X-Y Pairs Table  
Data Interval 10.00

| Wavelength (nm) | Abs    | Wavelength (nm) | Abs   | Wavelength (nm) | Abs   |
|-----------------|--------|-----------------|-------|-----------------|-------|
| 900.00          | 0.001  | 660.00          | 0.001 | 420.00          | 0.008 |
| 890.00          | -0.004 | 650.00          | 0.002 | 410.00          | 0.010 |
| 880.00          | -0.010 | 640.00          | 0.002 | 400.00          | 0.011 |
| 870.00          | 0.002  | 630.00          | 0.002 | 390.00          | 0.011 |
| 860.00          | 0.002  | 620.00          | 0.003 | 380.00          | 0.013 |
| 850.00          | 0.001  | 610.00          | 0.003 | 370.00          | 0.015 |
| 840.00          | 0.003  | 600.00          | 0.003 | 360.00          | 0.018 |
| 830.00          | 0.001  | 590.00          | 0.003 | 350.00          | 0.016 |
| 820.00          | 0.003  | 580.00          | 0.003 | 340.00          | 0.025 |
| 810.00          | 0.004  | 570.00          | 0.003 | 330.00          | 0.029 |
| 800.00          | 0.004  | 560.00          | 0.003 | 320.00          | 0.033 |
| 790.00          | 0.003  | 550.00          | 0.003 | 310.00          | 0.036 |
| 780.00          | 0.004  | 540.00          | 0.003 | 300.00          | 0.043 |
| 770.00          | 0.002  | 530.00          | 0.003 | 290.00          | 0.049 |
| 760.00          | 0.003  | 520.00          | 0.002 | 280.00          | 0.057 |
| 750.00          | 0.003  | 510.00          | 0.002 | 270.00          | 0.068 |
| 740.00          | 0.002  | 500.00          | 0.002 | 260.00          | 0.073 |
| 730.00          | 0.002  | 490.00          | 0.002 | 250.00          | 0.077 |
| 720.00          | 0.002  | 480.00          | 0.001 | 240.00          | 0.085 |
| 710.00          | 0.001  | 470.00          | 0.002 | 230.00          | 0.095 |
| 700.00          | 0.003  | 460.00          | 0.002 | 220.00          | 0.109 |
| 690.00          | 0.002  | 450.00          | 0.004 | 210.00          | 0.128 |
| 680.00          | 0.002  | 440.00          | 0.005 | 200.00          | 0.149 |
| 670.00          | 0.002  | 430.00          | 0.007 |                 |       |

**Sample Name: Sample 26 Rack 1 Tube 26**

Collection Time 10/16/2019 1:14:49 PM

## Peak Table

## Peak Style

## Peak Threshold

## Range

## Peaks

0.0100

900.00nm to 200.00nm

| Wavelength (nm) | Abs   |
|-----------------|-------|
| 899.20          | 0.033 |
| 897.60          | 0.015 |
| 888.80          | 0.015 |
| 883.20          | 0.011 |
| 878.40          | 0.013 |
| 874.40          | 0.012 |

## X-Y Pairs Table

## Data Interval

10.00

| Wavelength (nm) | Abs    | Wavelength (nm) | Abs   | Wavelength (nm) | Abs   |
|-----------------|--------|-----------------|-------|-----------------|-------|
| 900.00          | 0.012  | 660.00          | 0.002 | 420.00          | 0.012 |
| 890.00          | 0.006  | 650.00          | 0.002 | 410.00          | 0.014 |
| 880.00          | -0.001 | 640.00          | 0.003 | 400.00          | 0.017 |
| 870.00          | 0.001  | 630.00          | 0.003 | 390.00          | 0.019 |
| 860.00          | 0.003  | 620.00          | 0.003 | 380.00          | 0.022 |
| 850.00          | 0.005  | 610.00          | 0.002 | 370.00          | 0.025 |
| 840.00          | 0.003  | 600.00          | 0.003 | 360.00          | 0.030 |
| 830.00          | 0.001  | 590.00          | 0.003 | 350.00          | 0.030 |
| 820.00          | 0.003  | 580.00          | 0.003 | 340.00          | 0.045 |
| 810.00          | 0.003  | 570.00          | 0.004 | 330.00          | 0.049 |
| 800.00          | 0.003  | 560.00          | 0.003 | 320.00          | 0.058 |
| 790.00          | 0.003  | 550.00          | 0.004 | 310.00          | 0.062 |
| 780.00          | 0.003  | 540.00          | 0.004 | 300.00          | 0.076 |
| 770.00          | 0.002  | 530.00          | 0.004 | 290.00          | 0.085 |
| 760.00          | 0.002  | 520.00          | 0.003 | 280.00          | 0.098 |
| 750.00          | 0.002  | 510.00          | 0.002 | 270.00          | 0.114 |
| 740.00          | 0.002  | 500.00          | 0.003 | 260.00          | 0.124 |
| 730.00          | 0.002  | 490.00          | 0.003 | 250.00          | 0.132 |
| 720.00          | 0.002  | 480.00          | 0.003 | 240.00          | 0.143 |
| 710.00          | 0.001  | 470.00          | 0.003 | 230.00          | 0.159 |
| 700.00          | 0.002  | 460.00          | 0.004 | 220.00          | 0.187 |
| 690.00          | 0.002  | 450.00          | 0.007 | 210.00          | 0.216 |
| 680.00          | 0.001  | 440.00          | 0.008 | 200.00          | 0.239 |
| 670.00          | 0.002  | 430.00          | 0.010 |                 |       |

**Sample Name: Sample 27 Rack 1 Tube 27**

Collection Time 10/16/2019 1:18:00 PM

## Peak Table

Peak Style

Peak Threshold

Range

Peaks

0.0100

900.00nm to 200.00nm

| Wavelength (nm) | Abs   |
|-----------------|-------|
| 897.60          | 0.018 |
| 893.60          | 0.016 |
| 888.80          | 0.019 |
| 885.60          | 0.018 |
| 878.40          | 0.011 |

## X-Y Pairs Table

Data Interval

10.00

| Wavelength (nm) | Abs    | Wavelength (nm) | Abs   | Wavelength (nm) | Abs   |
|-----------------|--------|-----------------|-------|-----------------|-------|
| 900.00          | 0.017  | 660.00          | 0.001 | 420.00          | 0.013 |
| 890.00          | 0.003  | 650.00          | 0.002 | 410.00          | 0.016 |
| 880.00          | -0.004 | 640.00          | 0.003 | 400.00          | 0.020 |
| 870.00          | 0.001  | 630.00          | 0.002 | 390.00          | 0.023 |
| 860.00          | 0.002  | 620.00          | 0.003 | 380.00          | 0.027 |
| 850.00          | 0.004  | 610.00          | 0.002 | 370.00          | 0.032 |
| 840.00          | 0.002  | 600.00          | 0.003 | 360.00          | 0.036 |
| 830.00          | 0.002  | 590.00          | 0.003 | 350.00          | 0.039 |
| 820.00          | 0.003  | 580.00          | 0.003 | 340.00          | 0.055 |
| 810.00          | 0.002  | 570.00          | 0.003 | 330.00          | 0.062 |
| 800.00          | 0.004  | 560.00          | 0.003 | 320.00          | 0.070 |
| 790.00          | 0.003  | 550.00          | 0.004 | 310.00          | 0.077 |
| 780.00          | 0.003  | 540.00          | 0.004 | 300.00          | 0.088 |
| 770.00          | 0.002  | 530.00          | 0.005 | 290.00          | 0.099 |
| 760.00          | 0.002  | 520.00          | 0.004 | 280.00          | 0.115 |
| 750.00          | 0.002  | 510.00          | 0.004 | 270.00          | 0.132 |
| 740.00          | 0.002  | 500.00          | 0.004 | 260.00          | 0.146 |
| 730.00          | 0.001  | 490.00          | 0.005 | 250.00          | 0.155 |
| 720.00          | 0.002  | 480.00          | 0.004 | 240.00          | 0.170 |
| 710.00          | 0.001  | 470.00          | 0.005 | 230.00          | 0.189 |
| 700.00          | 0.003  | 460.00          | 0.006 | 220.00          | 0.216 |
| 690.00          | 0.002  | 450.00          | 0.008 | 210.00          | 0.247 |
| 680.00          | 0.001  | 440.00          | 0.009 | 200.00          | 0.273 |
| 670.00          | 0.002  | 430.00          | 0.012 |                 |       |

Sample Name: Sample 28 Rack 1 Tube 28

Collection Time

10/16/2019 1:21:12 PM

## Peak Table

Peak Style

Peak Threshold

Range

Peaks

0.0100

900.00nm to 200.00nm

| Wavelength (nm) | Abs   |
|-----------------|-------|
| 897.60          | 0.018 |
| 896.00          | 0.011 |
| 894.40          | 0.021 |
| 891.20          | 0.009 |
| 888.80          | 0.007 |
| 884.00          | 0.006 |
| 878.40          | 0.009 |
| 872.00          | 0.007 |

## X-Y Pairs Table

Data Interval

10.00

| Wavelength (nm) | Abs    | Wavelength (nm) | Abs   | Wavelength (nm) | Abs   |
|-----------------|--------|-----------------|-------|-----------------|-------|
| 900.00          | 0.001  | 660.00          | 0.003 | 420.00          | 0.006 |
| 890.00          | -0.007 | 650.00          | 0.003 | 410.00          | 0.007 |
| 880.00          | -0.001 | 640.00          | 0.003 | 400.00          | 0.009 |
| 870.00          | -0.001 | 630.00          | 0.003 | 390.00          | 0.009 |
| 860.00          | 0.005  | 620.00          | 0.003 | 380.00          | 0.010 |
| 850.00          | 0.004  | 610.00          | 0.003 | 370.00          | 0.012 |
| 840.00          | 0.001  | 600.00          | 0.003 | 360.00          | 0.015 |
| 830.00          | 0.000  | 590.00          | 0.002 | 350.00          | 0.012 |
| 820.00          | 0.002  | 580.00          | 0.002 | 340.00          | 0.025 |

|        |       |        |        |        |       |
|--------|-------|--------|--------|--------|-------|
| 810.00 | 0.002 | 570.00 | 0.003  | 330.00 | 0.028 |
| 800.00 | 0.005 | 560.00 | 0.002  | 320.00 | 0.030 |
| 790.00 | 0.003 | 550.00 | 0.002  | 310.00 | 0.030 |
| 780.00 | 0.004 | 540.00 | 0.003  | 300.00 | 0.037 |
| 770.00 | 0.001 | 530.00 | 0.002  | 290.00 | 0.043 |
| 760.00 | 0.003 | 520.00 | 0.002  | 280.00 | 0.048 |
| 750.00 | 0.003 | 510.00 | 0.001  | 270.00 | 0.061 |
| 740.00 | 0.003 | 500.00 | 0.000  | 260.00 | 0.064 |
| 730.00 | 0.002 | 490.00 | 0.000  | 250.00 | 0.067 |
| 720.00 | 0.004 | 480.00 | -0.001 | 240.00 | 0.075 |
| 710.00 | 0.003 | 470.00 | -0.001 | 230.00 | 0.083 |
| 700.00 | 0.004 | 460.00 | 0.000  | 220.00 | 0.097 |
| 690.00 | 0.003 | 450.00 | 0.002  | 210.00 | 0.110 |
| 680.00 | 0.002 | 440.00 | 0.003  | 200.00 | 0.133 |
| 670.00 | 0.002 | 430.00 | 0.006  |        |       |

**Sample Name: Sample 29 Rack 1 Tube 29**

Collection Time 10/16/2019 1:24:24 PM

## Peak Table

Peak Style

Peak Threshold

Range

Peaks

0.0100

900.00nm to 200.00nm

| Wavelength (nm) | Abs   |
|-----------------|-------|
| 897.60          | 0.023 |
| 893.60          | 0.006 |
| 891.20          | 0.016 |
| 888.80          | 0.019 |
| 885.60          | 0.012 |
| 873.60          | 0.009 |
| 868.00          | 0.008 |
| 338.40          | 0.026 |

## X-Y Pairs Table

Data Interval

10.00

| Wavelength (nm) | Abs    | Wavelength (nm) | Abs   | Wavelength (nm) | Abs   |
|-----------------|--------|-----------------|-------|-----------------|-------|
| 900.00          | 0.024  | 660.00          | 0.002 | 420.00          | 0.005 |
| 890.00          | 0.002  | 650.00          | 0.003 | 410.00          | 0.006 |
| 880.00          | -0.004 | 640.00          | 0.003 | 400.00          | 0.007 |
| 870.00          | 0.000  | 630.00          | 0.003 | 390.00          | 0.007 |
| 860.00          | 0.003  | 620.00          | 0.003 | 380.00          | 0.008 |
| 850.00          | 0.004  | 610.00          | 0.002 | 370.00          | 0.009 |
| 840.00          | -0.001 | 600.00          | 0.003 | 360.00          | 0.011 |
| 830.00          | 0.000  | 590.00          | 0.003 | 350.00          | 0.011 |
| 820.00          | 0.001  | 580.00          | 0.003 | 340.00          | 0.019 |
| 810.00          | 0.004  | 570.00          | 0.003 | 330.00          | 0.020 |
| 800.00          | 0.002  | 560.00          | 0.003 | 320.00          | 0.019 |
| 790.00          | 0.003  | 550.00          | 0.003 | 310.00          | 0.022 |
| 780.00          | 0.005  | 540.00          | 0.003 | 300.00          | 0.028 |
| 770.00          | 0.003  | 530.00          | 0.003 | 290.00          | 0.031 |
| 760.00          | 0.004  | 520.00          | 0.002 | 280.00          | 0.037 |
| 750.00          | 0.004  | 510.00          | 0.002 | 270.00          | 0.044 |
| 740.00          | 0.003  | 500.00          | 0.001 | 260.00          | 0.047 |
| 730.00          | 0.002  | 490.00          | 0.001 | 250.00          | 0.050 |
| 720.00          | 0.003  | 480.00          | 0.001 | 240.00          | 0.055 |
| 710.00          | 0.002  | 470.00          | 0.001 | 230.00          | 0.061 |
| 700.00          | 0.005  | 460.00          | 0.001 | 220.00          | 0.071 |
| 690.00          | 0.003  | 450.00          | 0.003 | 210.00          | 0.082 |
| 680.00          | 0.002  | 440.00          | 0.004 | 200.00          | 0.100 |
| 670.00          | 0.003  | 430.00          | 0.005 |                 |       |

**Sample Name: Sample 30 Rack 1 Tube 30**

Collection Time 10/16/2019 1:27:36 PM

## Peak Table

Peak Style

Peak Threshold

Range

Peaks

0.0100

900.00nm to 200.00nm

| Wavelength (nm) | Abs |
|-----------------|-----|
|-----------------|-----|

|        |       |
|--------|-------|
| 896.80 | 0.001 |
| 891.20 | 0.022 |
| 888.00 | 0.014 |
| 885.60 | 0.015 |
| 883.20 | 0.012 |
| 878.40 | 0.011 |

X-Y Pairs Table  
Data Interval

10.00

| Wavelength (nm) | Abs    | Wavelength (nm) | Abs   | Wavelength (nm) | Abs   |
|-----------------|--------|-----------------|-------|-----------------|-------|
| 900.00          | 0.018  | 660.00          | 0.001 | 420.00          | 0.006 |
| 890.00          | -0.001 | 650.00          | 0.002 | 410.00          | 0.007 |
| 880.00          | -0.004 | 640.00          | 0.003 | 400.00          | 0.009 |
| 870.00          | 0.000  | 630.00          | 0.003 | 390.00          | 0.009 |
| 860.00          | 0.003  | 620.00          | 0.002 | 380.00          | 0.009 |
| 850.00          | 0.003  | 610.00          | 0.002 | 370.00          | 0.010 |
| 840.00          | 0.002  | 600.00          | 0.002 | 360.00          | 0.012 |
| 830.00          | 0.000  | 590.00          | 0.002 | 350.00          | 0.010 |
| 820.00          | 0.003  | 580.00          | 0.003 | 340.00          | 0.021 |
| 810.00          | 0.003  | 570.00          | 0.004 | 330.00          | 0.023 |
| 800.00          | 0.004  | 560.00          | 0.003 | 320.00          | 0.019 |
| 790.00          | 0.001  | 550.00          | 0.003 | 310.00          | 0.020 |
| 780.00          | 0.002  | 540.00          | 0.003 | 300.00          | 0.025 |
| 770.00          | 0.002  | 530.00          | 0.004 | 290.00          | 0.030 |
| 760.00          | 0.001  | 520.00          | 0.002 | 280.00          | 0.035 |
| 750.00          | 0.001  | 510.00          | 0.002 | 270.00          | 0.042 |
| 740.00          | 0.001  | 500.00          | 0.002 | 260.00          | 0.046 |
| 730.00          | 0.001  | 490.00          | 0.001 | 250.00          | 0.049 |
| 720.00          | 0.001  | 480.00          | 0.001 | 240.00          | 0.054 |
| 710.00          | 0.001  | 470.00          | 0.001 | 230.00          | 0.057 |
| 700.00          | 0.002  | 460.00          | 0.002 | 220.00          | 0.066 |
| 690.00          | 0.002  | 450.00          | 0.003 | 210.00          | 0.077 |
| 680.00          | 0.002  | 440.00          | 0.004 | 200.00          | 0.091 |
| 670.00          | 0.002  | 430.00          | 0.006 |                 |       |

**Sample Name: Sample 31 Rack 1 Tube 31**

Collection Time

10/16/2019 1:30:49 PM

Peak Table

Peak Style

Peaks

Peak Threshold

0.0100

Range

900.00nm to 200.00nm

| Wavelength (nm) | Abs   |
|-----------------|-------|
| 899.20          | 0.029 |
| 897.60          | 0.017 |
| 896.00          | 0.006 |
| 891.20          | 0.017 |
| 888.80          | 0.020 |
| 883.20          | 0.011 |
| 878.40          | 0.017 |
| 876.00          | 0.015 |
| 346.40          | 0.013 |

X-Y Pairs Table

Data Interval

10.00

| Wavelength (nm) | Abs   | Wavelength (nm) | Abs   | Wavelength (nm) | Abs    |
|-----------------|-------|-----------------|-------|-----------------|--------|
| 900.00          | 0.010 | 660.00          | 0.002 | 420.00          | 0.002  |
| 890.00          | 0.001 | 650.00          | 0.003 | 410.00          | 0.002  |
| 880.00          | 0.000 | 640.00          | 0.003 | 400.00          | 0.003  |
| 870.00          | 0.001 | 630.00          | 0.002 | 390.00          | 0.003  |
| 860.00          | 0.004 | 620.00          | 0.003 | 380.00          | 0.002  |
| 850.00          | 0.003 | 610.00          | 0.002 | 370.00          | 0.002  |
| 840.00          | 0.003 | 600.00          | 0.003 | 360.00          | 0.003  |
| 830.00          | 0.001 | 590.00          | 0.003 | 350.00          | -0.001 |
| 820.00          | 0.003 | 580.00          | 0.003 | 340.00          | 0.006  |
| 810.00          | 0.003 | 570.00          | 0.003 | 330.00          | 0.005  |
| 800.00          | 0.004 | 560.00          | 0.003 | 320.00          | 0.005  |
| 790.00          | 0.002 | 550.00          | 0.003 | 310.00          | 0.004  |
| 780.00          | 0.004 | 540.00          | 0.004 | 300.00          | 0.006  |
| 770.00          | 0.002 | 530.00          | 0.003 | 290.00          | 0.006  |
| 760.00          | 0.003 | 520.00          | 0.003 | 280.00          | 0.004  |
| 750.00          | 0.002 | 510.00          | 0.002 | 270.00          | 0.009  |

|        |       |        |        |        |       |
|--------|-------|--------|--------|--------|-------|
| 740.00 | 0.003 | 500.00 | 0.003  | 260.00 | 0.006 |
| 730.00 | 0.002 | 490.00 | 0.002  | 250.00 | 0.008 |
| 720.00 | 0.003 | 480.00 | 0.000  | 240.00 | 0.007 |
| 710.00 | 0.002 | 470.00 | 0.000  | 230.00 | 0.007 |
| 700.00 | 0.004 | 460.00 | -0.001 | 220.00 | 0.008 |
| 690.00 | 0.003 | 450.00 | 0.000  | 210.00 | 0.008 |
| 680.00 | 0.003 | 440.00 | 0.001  | 200.00 | 0.009 |
| 670.00 | 0.003 | 430.00 | 0.002  |        |       |

**Sample Name: Sample 32 Rack 1 Tube 32**

Collection Time 10/16/2019 1:34:00 PM

## Peak Table

Peak Style

Peak Threshold

Range

Peaks

0.0100

900.00nm to 200.00nm

| Wavelength (nm) | Abs   |
|-----------------|-------|
| 896.00          | 0.005 |
| 890.40          | 0.010 |
| 888.00          | 0.019 |
| 885.60          | 0.017 |
| 883.20          | 0.012 |
| 880.80          | 0.006 |
| 878.40          | 0.012 |
| 876.00          | 0.010 |

## X-Y Pairs Table

Data Interval

10.00

| Wavelength (nm) | Abs    | Wavelength (nm) | Abs   | Wavelength (nm) | Abs   |
|-----------------|--------|-----------------|-------|-----------------|-------|
| 900.00          | 0.012  | 660.00          | 0.003 | 420.00          | 0.017 |
| 890.00          | 0.001  | 650.00          | 0.004 | 410.00          | 0.021 |
| 880.00          | -0.003 | 640.00          | 0.004 | 400.00          | 0.025 |
| 870.00          | 0.000  | 630.00          | 0.004 | 390.00          | 0.028 |
| 860.00          | 0.004  | 620.00          | 0.004 | 380.00          | 0.033 |
| 850.00          | 0.003  | 610.00          | 0.003 | 370.00          | 0.037 |
| 840.00          | 0.004  | 600.00          | 0.004 | 360.00          | 0.044 |
| 830.00          | 0.000  | 590.00          | 0.004 | 350.00          | 0.049 |
| 820.00          | 0.004  | 580.00          | 0.005 | 340.00          | 0.062 |
| 810.00          | 0.003  | 570.00          | 0.004 | 330.00          | 0.074 |
| 800.00          | 0.004  | 560.00          | 0.004 | 320.00          | 0.082 |
| 790.00          | 0.003  | 550.00          | 0.005 | 310.00          | 0.090 |
| 780.00          | 0.003  | 540.00          | 0.005 | 300.00          | 0.105 |
| 770.00          | 0.002  | 530.00          | 0.006 | 290.00          | 0.119 |
| 760.00          | 0.003  | 520.00          | 0.005 | 280.00          | 0.139 |
| 750.00          | 0.002  | 510.00          | 0.005 | 270.00          | 0.158 |
| 740.00          | 0.004  | 500.00          | 0.005 | 260.00          | 0.170 |
| 730.00          | 0.003  | 490.00          | 0.005 | 250.00          | 0.182 |
| 720.00          | 0.003  | 480.00          | 0.006 | 240.00          | 0.201 |
| 710.00          | 0.003  | 470.00          | 0.006 | 230.00          | 0.227 |
| 700.00          | 0.004  | 460.00          | 0.007 | 220.00          | 0.264 |
| 690.00          | 0.003  | 450.00          | 0.010 | 210.00          | 0.305 |
| 680.00          | 0.003  | 440.00          | 0.013 | 200.00          | 0.337 |
| 670.00          | 0.003  | 430.00          | 0.016 |                 |       |

**Sample Name: Sample 33 Rack 1 Tube 33**

Collection Time 10/16/2019 1:37:12 PM

## Peak Table

Peak Style

Peak Threshold

Range

Peaks

0.0100

900.00nm to 200.00nm

| Wavelength (nm) | Abs   |
|-----------------|-------|
| 896.00          | 0.006 |
| 893.60          | 0.008 |
| 888.80          | 0.019 |
| 883.20          | 0.010 |
| 876.00          | 0.010 |

## X-Y Pairs Table

Data Interval 10.00

| Wavelength (nm) | Abs   | Wavelength (nm) | Abs   | Wavelength (nm) | Abs   |
|-----------------|-------|-----------------|-------|-----------------|-------|
| 900.00          | 0.001 | 660.00          | 0.003 | 420.00          | 0.024 |
| 890.00          | 0.008 | 650.00          | 0.004 | 410.00          | 0.028 |
| 880.00          | 0.001 | 640.00          | 0.004 | 400.00          | 0.033 |
| 870.00          | 0.000 | 630.00          | 0.004 | 390.00          | 0.039 |
| 860.00          | 0.006 | 620.00          | 0.005 | 380.00          | 0.045 |
| 850.00          | 0.005 | 610.00          | 0.005 | 370.00          | 0.053 |
| 840.00          | 0.004 | 600.00          | 0.006 | 360.00          | 0.062 |
| 830.00          | 0.001 | 590.00          | 0.006 | 350.00          | 0.069 |
| 820.00          | 0.003 | 580.00          | 0.006 | 340.00          | 0.091 |
| 810.00          | 0.003 | 570.00          | 0.007 | 330.00          | 0.101 |
| 800.00          | 0.003 | 560.00          | 0.006 | 320.00          | 0.112 |
| 790.00          | 0.003 | 550.00          | 0.008 | 310.00          | 0.127 |
| 780.00          | 0.006 | 540.00          | 0.008 | 300.00          | 0.147 |
| 770.00          | 0.003 | 530.00          | 0.009 | 290.00          | 0.167 |
| 760.00          | 0.003 | 520.00          | 0.008 | 280.00          | 0.188 |
| 750.00          | 0.002 | 510.00          | 0.008 | 270.00          | 0.214 |
| 740.00          | 0.002 | 500.00          | 0.008 | 260.00          | 0.233 |
| 730.00          | 0.001 | 490.00          | 0.009 | 250.00          | 0.247 |
| 720.00          | 0.003 | 480.00          | 0.009 | 240.00          | 0.274 |
| 710.00          | 0.002 | 470.00          | 0.010 | 230.00          | 0.311 |
| 700.00          | 0.004 | 460.00          | 0.012 | 220.00          | 0.355 |
| 690.00          | 0.003 | 450.00          | 0.014 | 210.00          | 0.410 |
| 680.00          | 0.003 | 440.00          | 0.017 | 200.00          | 0.453 |
| 670.00          | 0.004 | 430.00          | 0.021 |                 |       |

**Sample Name: Sample 34 Rack 1 Tube 34**

Collection Time 10/16/2019 1:40:24 PM

## Peak Table

Peak Style

Peak Threshold

Range

Peaks

0.0100

900.00nm to 200.00nm

| Wavelength (nm) | Abs   |
|-----------------|-------|
| 899.20          | 0.038 |
| 897.60          | 0.012 |
| 893.60          | 0.020 |
| 891.20          | 0.010 |
| 888.80          | 0.009 |
| 885.60          | 0.015 |
| 878.40          | 0.014 |
| 873.60          | 0.009 |
| 344.00          | 0.011 |

## X-Y Pairs Table

Data Interval 10.00

| Wavelength (nm) | Abs    | Wavelength (nm) | Abs   | Wavelength (nm) | Abs    |
|-----------------|--------|-----------------|-------|-----------------|--------|
| 900.00          | 0.016  | 660.00          | 0.003 | 420.00          | 0.003  |
| 890.00          | 0.001  | 650.00          | 0.004 | 410.00          | 0.003  |
| 880.00          | -0.002 | 640.00          | 0.004 | 400.00          | 0.004  |
| 870.00          | 0.002  | 630.00          | 0.003 | 390.00          | 0.004  |
| 860.00          | 0.007  | 620.00          | 0.003 | 380.00          | 0.004  |
| 850.00          | 0.006  | 610.00          | 0.004 | 370.00          | 0.004  |
| 840.00          | 0.004  | 600.00          | 0.004 | 360.00          | 0.004  |
| 830.00          | 0.004  | 590.00          | 0.004 | 350.00          | -0.001 |
| 820.00          | 0.005  | 580.00          | 0.004 | 340.00          | 0.005  |
| 810.00          | 0.004  | 570.00          | 0.004 | 330.00          | 0.006  |
| 800.00          | 0.003  | 560.00          | 0.004 | 320.00          | 0.007  |
| 790.00          | 0.004  | 550.00          | 0.003 | 310.00          | 0.005  |
| 780.00          | 0.004  | 540.00          | 0.003 | 300.00          | 0.007  |
| 770.00          | 0.003  | 530.00          | 0.003 | 290.00          | 0.008  |
| 760.00          | 0.003  | 520.00          | 0.002 | 280.00          | 0.008  |
| 750.00          | 0.003  | 510.00          | 0.001 | 270.00          | 0.011  |
| 740.00          | 0.002  | 500.00          | 0.000 | 260.00          | 0.012  |
| 730.00          | 0.003  | 490.00          | 0.000 | 250.00          | 0.013  |
| 720.00          | 0.002  | 480.00          | 0.000 | 240.00          | 0.015  |
| 710.00          | 0.002  | 470.00          | 0.000 | 230.00          | 0.016  |
| 700.00          | 0.004  | 460.00          | 0.000 | 220.00          | 0.020  |
| 690.00          | 0.003  | 450.00          | 0.001 | 210.00          | 0.025  |
| 680.00          | 0.003  | 440.00          | 0.002 | 200.00          | 0.034  |
| 670.00          | 0.003  | 430.00          | 0.003 |                 |        |

**Sample Name: Sample 35 Rack 1 Tube 35**

Collection Time 10/16/2019 1:43:34 PM

Peak Table  
 Peak Style Peaks  
 Peak Threshold 0.0100  
 Range 900.00nm to 200.00nm

| Wavelength (nm) | Abs   |
|-----------------|-------|
| 896.00          | 0.017 |
| 893.60          | 0.010 |
| 888.80          | 0.018 |
| 884.00          | 0.014 |
| 878.40          | 0.014 |
| 876.00          | 0.011 |
| 354.40          | 0.009 |
| 338.40          | 0.015 |

X-Y Pairs Table  
 Data Interval 10.00

| Wavelength (nm) | Abs    | Wavelength (nm) | Abs   | Wavelength (nm) | Abs   |
|-----------------|--------|-----------------|-------|-----------------|-------|
| 900.00          | 0.018  | 660.00          | 0.003 | 420.00          | 0.004 |
| 890.00          | 0.001  | 650.00          | 0.004 | 410.00          | 0.004 |
| 880.00          | -0.001 | 640.00          | 0.004 | 400.00          | 0.004 |
| 870.00          | 0.001  | 630.00          | 0.003 | 390.00          | 0.004 |
| 860.00          | 0.003  | 620.00          | 0.004 | 380.00          | 0.004 |
| 850.00          | 0.004  | 610.00          | 0.003 | 370.00          | 0.005 |
| 840.00          | 0.003  | 600.00          | 0.004 | 360.00          | 0.006 |
| 830.00          | 0.002  | 590.00          | 0.003 | 350.00          | 0.004 |
| 820.00          | 0.002  | 580.00          | 0.003 | 340.00          | 0.010 |
| 810.00          | 0.005  | 570.00          | 0.003 | 330.00          | 0.010 |
| 800.00          | 0.004  | 560.00          | 0.003 | 320.00          | 0.007 |
| 790.00          | 0.003  | 550.00          | 0.003 | 310.00          | 0.007 |
| 780.00          | 0.004  | 540.00          | 0.003 | 300.00          | 0.010 |
| 770.00          | 0.003  | 530.00          | 0.003 | 290.00          | 0.011 |
| 760.00          | 0.004  | 520.00          | 0.002 | 280.00          | 0.012 |
| 750.00          | 0.003  | 510.00          | 0.002 | 270.00          | 0.019 |
| 740.00          | 0.003  | 500.00          | 0.002 | 260.00          | 0.018 |
| 730.00          | 0.003  | 490.00          | 0.002 | 250.00          | 0.021 |
| 720.00          | 0.004  | 480.00          | 0.001 | 240.00          | 0.021 |
| 710.00          | 0.003  | 470.00          | 0.001 | 230.00          | 0.022 |
| 700.00          | 0.004  | 460.00          | 0.001 | 220.00          | 0.032 |
| 690.00          | 0.004  | 450.00          | 0.002 | 210.00          | 0.044 |
| 680.00          | 0.003  | 440.00          | 0.003 | 200.00          | 0.058 |
| 670.00          | 0.004  | 430.00          | 0.004 |                 |       |

**Sample Name: Sample 36 Rack 1 Tube 36**

Collection Time 10/16/2019 1:46:47 PM

Peak Table  
 Peak Style Peaks  
 Peak Threshold 0.0100  
 Range 900.00nm to 200.00nm

| Wavelength (nm) | Abs   |
|-----------------|-------|
| 896.00          | 0.018 |
| 893.60          | 0.009 |
| 888.80          | 0.026 |
| 884.00          | 0.015 |
| 878.40          | 0.010 |
| 876.00          | 0.009 |

X-Y Pairs Table  
 Data Interval 10.00

| Wavelength (nm) | Abs    | Wavelength (nm) | Abs   | Wavelength (nm) | Abs   |
|-----------------|--------|-----------------|-------|-----------------|-------|
| 900.00          | 0.024  | 660.00          | 0.002 | 420.00          | 0.005 |
| 890.00          | 0.008  | 650.00          | 0.002 | 410.00          | 0.007 |
| 880.00          | -0.001 | 640.00          | 0.002 | 400.00          | 0.007 |



|        |        |        |       |        |       |
|--------|--------|--------|-------|--------|-------|
| 870.00 | -0.001 | 630.00 | 0.002 | 390.00 | 0.007 |
| 860.00 | 0.006  | 620.00 | 0.002 | 380.00 | 0.009 |
| 850.00 | 0.004  | 610.00 | 0.002 | 370.00 | 0.009 |
| 840.00 | 0.003  | 600.00 | 0.002 | 360.00 | 0.012 |
| 830.00 | 0.002  | 590.00 | 0.002 | 350.00 | 0.007 |
| 820.00 | 0.003  | 580.00 | 0.003 | 340.00 | 0.020 |
| 810.00 | 0.004  | 570.00 | 0.003 | 330.00 | 0.020 |
| 800.00 | 0.005  | 560.00 | 0.002 | 320.00 | 0.023 |
| 790.00 | 0.004  | 550.00 | 0.002 | 310.00 | 0.025 |
| 780.00 | 0.004  | 540.00 | 0.003 | 300.00 | 0.030 |
| 770.00 | 0.002  | 530.00 | 0.003 | 290.00 | 0.030 |
| 760.00 | 0.003  | 520.00 | 0.003 | 280.00 | 0.033 |
| 750.00 | 0.002  | 510.00 | 0.003 | 270.00 | 0.042 |
| 740.00 | 0.002  | 500.00 | 0.002 | 260.00 | 0.045 |
| 730.00 | 0.002  | 490.00 | 0.002 | 250.00 | 0.049 |
| 720.00 | 0.002  | 480.00 | 0.001 | 240.00 | 0.051 |
| 710.00 | 0.002  | 470.00 | 0.001 | 230.00 | 0.056 |
| 700.00 | 0.003  | 460.00 | 0.001 | 220.00 | 0.068 |
| 690.00 | 0.003  | 450.00 | 0.003 | 210.00 | 0.083 |
| 680.00 | 0.003  | 440.00 | 0.004 | 200.00 | 0.100 |
| 670.00 | 0.002  | 430.00 | 0.005 |        |       |

**Sample Name: Sample 37 Rack 1 Tube 37**

Collection Time 10/16/2019 1:49:58 PM

## Peak Table

Peak Style

Peak Threshold

Range

Peaks

0.0100

900.00nm to 200.00nm

Wavelength (nm) Abs

|        |       |
|--------|-------|
| 897.60 | 0.009 |
| 893.60 | 0.007 |
| 888.80 | 0.013 |
| 884.00 | 0.013 |
| 878.40 | 0.010 |
| 876.00 | 0.012 |
| 874.40 | 0.013 |
| 868.00 | 0.010 |

## X-Y Pairs Table

Data Interval

10.00

| Wavelength (nm) | Abs    | Wavelength (nm) | Abs    | Wavelength (nm) | Abs    |
|-----------------|--------|-----------------|--------|-----------------|--------|
| 900.00          | 0.009  | 660.00          | 0.001  | 420.00          | 0.001  |
| 890.00          | -0.002 | 650.00          | 0.001  | 410.00          | 0.002  |
| 880.00          | 0.000  | 640.00          | 0.002  | 400.00          | 0.003  |
| 870.00          | -0.003 | 630.00          | 0.002  | 390.00          | 0.002  |
| 860.00          | 0.006  | 620.00          | 0.001  | 380.00          | 0.002  |
| 850.00          | 0.005  | 610.00          | 0.001  | 370.00          | 0.002  |
| 840.00          | 0.005  | 600.00          | 0.001  | 360.00          | 0.003  |
| 830.00          | 0.002  | 590.00          | 0.001  | 350.00          | -0.001 |
| 820.00          | 0.004  | 580.00          | 0.002  | 340.00          | 0.011  |
| 810.00          | 0.004  | 570.00          | 0.002  | 330.00          | 0.008  |
| 800.00          | 0.004  | 560.00          | 0.002  | 320.00          | 0.008  |
| 790.00          | 0.004  | 550.00          | 0.002  | 310.00          | 0.006  |
| 780.00          | 0.004  | 540.00          | 0.003  | 300.00          | 0.010  |
| 770.00          | 0.002  | 530.00          | 0.002  | 290.00          | 0.012  |
| 760.00          | 0.002  | 520.00          | 0.001  | 280.00          | 0.014  |
| 750.00          | 0.002  | 510.00          | 0.001  | 270.00          | 0.016  |
| 740.00          | 0.002  | 500.00          | 0.000  | 260.00          | 0.018  |
| 730.00          | 0.001  | 490.00          | 0.000  | 250.00          | 0.018  |
| 720.00          | 0.002  | 480.00          | 0.000  | 240.00          | 0.022  |
| 710.00          | 0.001  | 470.00          | 0.000  | 230.00          | 0.023  |
| 700.00          | 0.003  | 460.00          | -0.001 | 220.00          | 0.025  |
| 690.00          | 0.001  | 450.00          | 0.001  | 210.00          | 0.038  |
| 680.00          | 0.001  | 440.00          | 0.001  | 200.00          | 0.048  |
| 670.00          | 0.001  | 430.00          | 0.002  |                 |        |

**Sample Name: Sample 38 Rack 1 Tube 38**

Collection Time 10/16/2019 1:53:10 PM

## Peak Table

Peak Style  
 Peak Threshold  
 Range

Peaks  
 0.0100  
 900.00nm to 200.00nm

| Wavelength (nm) | Abs   |
|-----------------|-------|
| 899.20          | 0.025 |
| 896.80          | 0.017 |
| 891.20          | 0.010 |
| 888.00          | 0.014 |
| 885.60          | 0.017 |
| 878.40          | 0.014 |
| 352.00          | 0.023 |

## X-Y Pairs Table

Data Interval 10.00

| Wavelength (nm) | Abs    | Wavelength (nm) | Abs   | Wavelength (nm) | Abs   |
|-----------------|--------|-----------------|-------|-----------------|-------|
| 900.00          | 0.001  | 660.00          | 0.003 | 420.00          | 0.006 |
| 890.00          | -0.003 | 650.00          | 0.004 | 410.00          | 0.008 |
| 880.00          | 0.002  | 640.00          | 0.004 | 400.00          | 0.010 |
| 870.00          | 0.003  | 630.00          | 0.004 | 390.00          | 0.012 |
| 860.00          | 0.005  | 620.00          | 0.003 | 380.00          | 0.013 |
| 850.00          | 0.004  | 610.00          | 0.003 | 370.00          | 0.015 |
| 840.00          | 0.004  | 600.00          | 0.003 | 360.00          | 0.018 |
| 830.00          | 0.004  | 590.00          | 0.003 | 350.00          | 0.017 |
| 820.00          | 0.005  | 580.00          | 0.003 | 340.00          | 0.030 |
| 810.00          | 0.003  | 570.00          | 0.004 | 330.00          | 0.034 |
| 800.00          | 0.006  | 560.00          | 0.003 | 320.00          | 0.037 |
| 790.00          | 0.004  | 550.00          | 0.004 | 310.00          | 0.040 |
| 780.00          | 0.007  | 540.00          | 0.004 | 300.00          | 0.046 |
| 770.00          | 0.004  | 530.00          | 0.004 | 290.00          | 0.054 |
| 760.00          | 0.005  | 520.00          | 0.003 | 280.00          | 0.064 |
| 750.00          | 0.004  | 510.00          | 0.003 | 270.00          | 0.073 |
| 740.00          | 0.003  | 500.00          | 0.002 | 260.00          | 0.079 |
| 730.00          | 0.003  | 490.00          | 0.002 | 250.00          | 0.086 |
| 720.00          | 0.003  | 480.00          | 0.002 | 240.00          | 0.095 |
| 710.00          | 0.002  | 470.00          | 0.002 | 230.00          | 0.104 |
| 700.00          | 0.004  | 460.00          | 0.002 | 220.00          | 0.118 |
| 690.00          | 0.004  | 450.00          | 0.003 | 210.00          | 0.139 |
| 680.00          | 0.003  | 440.00          | 0.004 | 200.00          | 0.162 |
| 670.00          | 0.003  | 430.00          | 0.005 |                 |       |

**Sample Name: Sample 39 Rack 1 Tube 39**

Collection Time 10/16/2019 1:56:23 PM

Peak Table  
 Peak Style  
 Peak Threshold  
 Range

Peaks  
 0.0100  
 900.00nm to 200.00nm

| Wavelength (nm) | Abs   |
|-----------------|-------|
| 896.00          | 0.018 |
| 893.60          | 0.010 |
| 888.00          | 0.017 |
| 885.60          | 0.009 |
| 884.00          | 0.012 |
| 878.40          | 0.017 |
| 872.00          | 0.011 |

## X-Y Pairs Table

Data Interval 10.00

| Wavelength (nm) | Abs    | Wavelength (nm) | Abs   | Wavelength (nm) | Abs   |
|-----------------|--------|-----------------|-------|-----------------|-------|
| 900.00          | 0.009  | 660.00          | 0.003 | 420.00          | 0.011 |
| 890.00          | 0.000  | 650.00          | 0.004 | 410.00          | 0.013 |
| 880.00          | -0.005 | 640.00          | 0.004 | 400.00          | 0.016 |
| 870.00          | 0.001  | 630.00          | 0.004 | 390.00          | 0.019 |
| 860.00          | 0.006  | 620.00          | 0.004 | 380.00          | 0.022 |
| 850.00          | 0.004  | 610.00          | 0.002 | 370.00          | 0.026 |
| 840.00          | 0.003  | 600.00          | 0.004 | 360.00          | 0.033 |
| 830.00          | 0.001  | 590.00          | 0.003 | 350.00          | 0.034 |
| 820.00          | 0.004  | 580.00          | 0.004 | 340.00          | 0.053 |
| 810.00          | 0.003  | 570.00          | 0.005 | 330.00          | 0.057 |
| 800.00          | 0.001  | 560.00          | 0.005 | 320.00          | 0.063 |

|        |       |        |       |        |       |
|--------|-------|--------|-------|--------|-------|
| 790.00 | 0.002 | 550.00 | 0.005 | 310.00 | 0.070 |
| 780.00 | 0.004 | 540.00 | 0.005 | 300.00 | 0.083 |
| 770.00 | 0.001 | 530.00 | 0.005 | 290.00 | 0.093 |
| 760.00 | 0.002 | 520.00 | 0.006 | 280.00 | 0.108 |
| 750.00 | 0.001 | 510.00 | 0.005 | 270.00 | 0.126 |
| 740.00 | 0.002 | 500.00 | 0.004 | 260.00 | 0.139 |
| 730.00 | 0.002 | 490.00 | 0.004 | 250.00 | 0.148 |
| 720.00 | 0.003 | 480.00 | 0.003 | 240.00 | 0.163 |
| 710.00 | 0.002 | 470.00 | 0.003 | 230.00 | 0.179 |
| 700.00 | 0.004 | 460.00 | 0.004 | 220.00 | 0.204 |
| 690.00 | 0.004 | 450.00 | 0.005 | 210.00 | 0.232 |
| 680.00 | 0.004 | 440.00 | 0.008 | 200.00 | 0.261 |
| 670.00 | 0.004 | 430.00 | 0.010 |        |       |

**Sample Name: Sample 40 Rack 1 Tube 40**

Collection Time 10/16/2019 1:59:36 PM

## Peak Table

Peak Style

Peak Threshold

Range

Peaks

0.0100

900.00nm to 200.00nm

| Wavelength (nm) | Abs   |
|-----------------|-------|
| 896.00          | 0.011 |
| 893.60          | 0.005 |
| 891.20          | 0.016 |
| 888.80          | 0.015 |
| 884.00          | 0.017 |
| 875.20          | 0.009 |

## X-Y Pairs Table

Data Interval

10.00

| Wavelength (nm) | Abs    | Wavelength (nm) | Abs    | Wavelength (nm) | Abs   |
|-----------------|--------|-----------------|--------|-----------------|-------|
| 900.00          | 0.024  | 660.00          | 0.002  | 420.00          | 0.005 |
| 890.00          | 0.003  | 650.00          | 0.003  | 410.00          | 0.006 |
| 880.00          | -0.001 | 640.00          | 0.004  | 400.00          | 0.008 |
| 870.00          | 0.002  | 630.00          | 0.004  | 390.00          | 0.009 |
| 860.00          | 0.001  | 620.00          | 0.003  | 380.00          | 0.010 |
| 850.00          | 0.004  | 610.00          | 0.003  | 370.00          | 0.011 |
| 840.00          | 0.005  | 600.00          | 0.003  | 360.00          | 0.013 |
| 830.00          | 0.001  | 590.00          | 0.004  | 350.00          | 0.012 |
| 820.00          | 0.005  | 580.00          | 0.004  | 340.00          | 0.022 |
| 810.00          | 0.004  | 570.00          | 0.004  | 330.00          | 0.023 |
| 800.00          | 0.006  | 560.00          | 0.004  | 320.00          | 0.024 |
| 790.00          | 0.005  | 550.00          | 0.004  | 310.00          | 0.029 |
| 780.00          | 0.006  | 540.00          | 0.004  | 300.00          | 0.031 |
| 770.00          | 0.004  | 530.00          | 0.004  | 290.00          | 0.036 |
| 760.00          | 0.005  | 520.00          | 0.003  | 280.00          | 0.038 |
| 750.00          | 0.004  | 510.00          | 0.002  | 270.00          | 0.050 |
| 740.00          | 0.005  | 500.00          | 0.001  | 260.00          | 0.051 |
| 730.00          | 0.004  | 490.00          | 0.001  | 250.00          | 0.055 |
| 720.00          | 0.004  | 480.00          | 0.000  | 240.00          | 0.062 |
| 710.00          | 0.004  | 470.00          | -0.001 | 230.00          | 0.070 |
| 700.00          | 0.004  | 460.00          | 0.000  | 220.00          | 0.089 |
| 690.00          | 0.003  | 450.00          | 0.001  | 210.00          | 0.122 |
| 680.00          | 0.004  | 440.00          | 0.002  | 200.00          | 0.156 |
| 670.00          | 0.003  | 430.00          | 0.004  |                 |       |

**Sample Name: Sample 41 Rack 1 Tube 41**

Collection Time 10/16/2019 2:02:48 PM

## Peak Table

Peak Style

Peak Threshold

Range

Peaks

0.0100

900.00nm to 200.00nm

| Wavelength (nm) | Abs   |
|-----------------|-------|
| 897.60          | 0.008 |
| 893.60          | 0.006 |
| 891.20          | 0.016 |
| 888.80          | 0.017 |

|        |       |
|--------|-------|
| 884.00 | 0.012 |
| 872.00 | 0.009 |
| 869.60 | 0.009 |
| 338.40 | 0.014 |

X-Y Pairs Table  
Data Interval

10.00

| Wavelength (nm) | Abs    | Wavelength (nm) | Abs   | Wavelength (nm) | Abs    |
|-----------------|--------|-----------------|-------|-----------------|--------|
| 900.00          | 0.018  | 660.00          | 0.004 | 420.00          | 0.002  |
| 890.00          | 0.002  | 650.00          | 0.004 | 410.00          | 0.002  |
| 880.00          | -0.003 | 640.00          | 0.004 | 400.00          | 0.003  |
| 870.00          | 0.003  | 630.00          | 0.004 | 390.00          | 0.002  |
| 860.00          | 0.008  | 620.00          | 0.004 | 380.00          | 0.002  |
| 850.00          | 0.005  | 610.00          | 0.004 | 370.00          | 0.002  |
| 840.00          | 0.003  | 600.00          | 0.005 | 360.00          | 0.003  |
| 830.00          | 0.002  | 590.00          | 0.004 | 350.00          | -0.002 |
| 820.00          | 0.006  | 580.00          | 0.004 | 340.00          | 0.008  |
| 810.00          | 0.005  | 570.00          | 0.004 | 330.00          | 0.007  |
| 800.00          | 0.005  | 560.00          | 0.004 | 320.00          | 0.008  |
| 790.00          | 0.004  | 550.00          | 0.004 | 310.00          | 0.004  |
| 780.00          | 0.005  | 540.00          | 0.004 | 300.00          | 0.007  |
| 770.00          | 0.003  | 530.00          | 0.004 | 290.00          | 0.006  |
| 760.00          | 0.004  | 520.00          | 0.003 | 280.00          | 0.008  |
| 750.00          | 0.003  | 510.00          | 0.002 | 270.00          | 0.011  |
| 740.00          | 0.003  | 500.00          | 0.002 | 260.00          | 0.011  |
| 730.00          | 0.003  | 490.00          | 0.002 | 250.00          | 0.010  |
| 720.00          | 0.003  | 480.00          | 0.002 | 240.00          | 0.011  |
| 710.00          | 0.003  | 470.00          | 0.002 | 230.00          | 0.010  |
| 700.00          | 0.004  | 460.00          | 0.001 | 220.00          | 0.012  |
| 690.00          | 0.003  | 450.00          | 0.002 | 210.00          | 0.011  |
| 680.00          | 0.004  | 440.00          | 0.002 | 200.00          | 0.014  |
| 670.00          | 0.004  | 430.00          | 0.002 |                 |        |

**Sample Name: Sample 42 Rack 1 Tube 42**

Collection Time 10/16/2019 2:06:01 PM

Peak Table

Peak Style

Peak Threshold

Range

Peaks

0.0100

900.00nm to 200.00nm

| Wavelength (nm) | Abs   |
|-----------------|-------|
| 899.20          | 0.026 |
| 896.80          | 0.014 |
| 893.60          | 0.005 |
| 891.20          | 0.008 |
| 888.80          | 0.025 |
| 885.60          | 0.015 |
| 883.20          | 0.018 |
| 878.40          | 0.013 |
| 876.00          | 0.012 |
| 338.40          | 0.019 |

X-Y Pairs Table  
Data Interval

10.00

| Wavelength (nm) | Abs    | Wavelength (nm) | Abs   | Wavelength (nm) | Abs   |
|-----------------|--------|-----------------|-------|-----------------|-------|
| 900.00          | 0.010  | 660.00          | 0.003 | 420.00          | 0.003 |
| 890.00          | -0.004 | 650.00          | 0.003 | 410.00          | 0.003 |
| 880.00          | 0.000  | 640.00          | 0.003 | 400.00          | 0.005 |
| 870.00          | 0.004  | 630.00          | 0.003 | 390.00          | 0.005 |
| 860.00          | 0.006  | 620.00          | 0.003 | 380.00          | 0.005 |
| 850.00          | 0.005  | 610.00          | 0.003 | 370.00          | 0.005 |
| 840.00          | 0.005  | 600.00          | 0.003 | 360.00          | 0.008 |
| 830.00          | 0.004  | 590.00          | 0.003 | 350.00          | 0.003 |
| 820.00          | 0.005  | 580.00          | 0.004 | 340.00          | 0.016 |
| 810.00          | 0.005  | 570.00          | 0.004 | 330.00          | 0.012 |
| 800.00          | 0.005  | 560.00          | 0.003 | 320.00          | 0.010 |
| 790.00          | 0.005  | 550.00          | 0.003 | 310.00          | 0.009 |
| 780.00          | 0.006  | 540.00          | 0.003 | 300.00          | 0.014 |
| 770.00          | 0.004  | 530.00          | 0.003 | 290.00          | 0.012 |
| 760.00          | 0.005  | 520.00          | 0.002 | 280.00          | 0.014 |
| 750.00          | 0.003  | 510.00          | 0.002 | 270.00          | 0.019 |
| 740.00          | 0.004  | 500.00          | 0.001 | 260.00          | 0.019 |

|        |       |        |       |        |       |
|--------|-------|--------|-------|--------|-------|
| 730.00 | 0.003 | 490.00 | 0.001 | 250.00 | 0.020 |
| 720.00 | 0.004 | 480.00 | 0.000 | 240.00 | 0.022 |
| 710.00 | 0.003 | 470.00 | 0.000 | 230.00 | 0.023 |
| 700.00 | 0.004 | 460.00 | 0.000 | 220.00 | 0.033 |
| 690.00 | 0.003 | 450.00 | 0.001 | 210.00 | 0.051 |
| 680.00 | 0.003 | 440.00 | 0.002 | 200.00 | 0.064 |
| 670.00 | 0.003 | 430.00 | 0.003 |        |       |

**Sample Name: Sample 43 Rack 1 Tube 43**

Collection Time 10/16/2019 2:09:13 PM

Peak Table  
Peak Style Peaks  
Peak Threshold 0.0100  
Range 900.00nm to 200.00nm

| Wavelength (nm) | Abs   |
|-----------------|-------|
| 899.20          | 0.023 |
| 897.60          | 0.025 |
| 896.00          | 0.009 |
| 890.40          | 0.014 |
| 888.80          | 0.017 |
| 880.80          | 0.009 |
| 878.40          | 0.017 |
| 876.00          | 0.012 |
| 338.40          | 0.024 |

X-Y Pairs Table  
Data Interval 10.00

| Wavelength (nm) | Abs    | Wavelength (nm) | Abs   | Wavelength (nm) | Abs   |
|-----------------|--------|-----------------|-------|-----------------|-------|
| 900.00          | -0.005 | 660.00          | 0.002 | 420.00          | 0.002 |
| 890.00          | 0.005  | 650.00          | 0.003 | 410.00          | 0.003 |
| 880.00          | 0.000  | 640.00          | 0.004 | 400.00          | 0.004 |
| 870.00          | 0.004  | 630.00          | 0.003 | 390.00          | 0.004 |
| 860.00          | 0.004  | 620.00          | 0.003 | 380.00          | 0.004 |
| 850.00          | 0.006  | 610.00          | 0.002 | 370.00          | 0.005 |
| 840.00          | 0.004  | 600.00          | 0.002 | 360.00          | 0.005 |
| 830.00          | 0.003  | 590.00          | 0.002 | 350.00          | 0.003 |
| 820.00          | 0.004  | 580.00          | 0.003 | 340.00          | 0.017 |
| 810.00          | 0.004  | 570.00          | 0.003 | 330.00          | 0.019 |
| 800.00          | 0.003  | 560.00          | 0.002 | 320.00          | 0.018 |
| 790.00          | 0.004  | 550.00          | 0.002 | 310.00          | 0.016 |
| 780.00          | 0.005  | 540.00          | 0.003 | 300.00          | 0.022 |
| 770.00          | 0.004  | 530.00          | 0.003 | 290.00          | 0.026 |
| 760.00          | 0.004  | 520.00          | 0.002 | 280.00          | 0.030 |
| 750.00          | 0.003  | 510.00          | 0.002 | 270.00          | 0.034 |
| 740.00          | 0.003  | 500.00          | 0.001 | 260.00          | 0.039 |
| 730.00          | 0.002  | 490.00          | 0.001 | 250.00          | 0.038 |
| 720.00          | 0.003  | 480.00          | 0.001 | 240.00          | 0.038 |
| 710.00          | 0.002  | 470.00          | 0.001 | 230.00          | 0.042 |
| 700.00          | 0.004  | 460.00          | 0.001 | 220.00          | 0.049 |
| 690.00          | 0.003  | 450.00          | 0.001 | 210.00          | 0.060 |
| 680.00          | 0.003  | 440.00          | 0.002 | 200.00          | 0.076 |
| 670.00          | 0.003  | 430.00          | 0.003 |                 |       |

**Sample Name: Sample 44 Rack 1 Tube 44**

Collection Time 10/16/2019 2:12:25 PM

Peak Table  
Peak Style Peaks  
Peak Threshold 0.0100  
Range 900.00nm to 200.00nm

| Wavelength (nm) | Abs   |
|-----------------|-------|
| 899.20          | 0.029 |
| 896.80          | 0.009 |
| 894.40          | 0.005 |
| 891.20          | 0.012 |
| 888.80          | 0.018 |
| 883.20          | 0.014 |
| 878.40          | 0.017 |

|        |       |
|--------|-------|
| 876.00 | 0.012 |
| 868.00 | 0.009 |
| 338.40 | 0.015 |

## X-Y Pairs Table

Data Interval 10.00

| Wavelength (nm) | Abs    | Wavelength (nm) | Abs   | Wavelength (nm) | Abs    |
|-----------------|--------|-----------------|-------|-----------------|--------|
| 900.00          | 0.008  | 660.00          | 0.005 | 420.00          | 0.004  |
| 890.00          | -0.001 | 650.00          | 0.005 | 410.00          | 0.004  |
| 880.00          | -0.006 | 640.00          | 0.006 | 400.00          | 0.004  |
| 870.00          | 0.003  | 630.00          | 0.005 | 390.00          | 0.003  |
| 860.00          | 0.009  | 620.00          | 0.005 | 380.00          | 0.003  |
| 850.00          | 0.006  | 610.00          | 0.005 | 370.00          | 0.002  |
| 840.00          | 0.006  | 600.00          | 0.005 | 360.00          | 0.002  |
| 830.00          | 0.005  | 590.00          | 0.005 | 350.00          | -0.002 |
| 820.00          | 0.009  | 580.00          | 0.005 | 340.00          | 0.007  |
| 810.00          | 0.005  | 570.00          | 0.005 | 330.00          | 0.006  |
| 800.00          | 0.006  | 560.00          | 0.005 | 320.00          | 0.004  |
| 790.00          | 0.006  | 550.00          | 0.005 | 310.00          | 0.004  |
| 780.00          | 0.007  | 540.00          | 0.006 | 300.00          | 0.005  |
| 770.00          | 0.005  | 530.00          | 0.005 | 290.00          | 0.005  |
| 760.00          | 0.005  | 520.00          | 0.004 | 280.00          | 0.007  |
| 750.00          | 0.005  | 510.00          | 0.003 | 270.00          | 0.010  |
| 740.00          | 0.004  | 500.00          | 0.003 | 260.00          | 0.009  |
| 730.00          | 0.005  | 490.00          | 0.002 | 250.00          | 0.009  |
| 720.00          | 0.006  | 480.00          | 0.001 | 240.00          | 0.008  |
| 710.00          | 0.004  | 470.00          | 0.001 | 230.00          | 0.007  |
| 700.00          | 0.006  | 460.00          | 0.000 | 220.00          | 0.010  |
| 690.00          | 0.005  | 450.00          | 0.001 | 210.00          | 0.010  |
| 680.00          | 0.005  | 440.00          | 0.002 | 200.00          | 0.012  |
| 670.00          | 0.005  | 430.00          | 0.003 |                 |        |

**Sample Name: Baseline 100%T**

Collection Time 10/17/2019 1:48:06 PM

## Peak Table

Peak Style

Peak Threshold

Range

Peaks

0.0100

900.00nm to 200.00nm

| Wavelength (nm) | Abs   |
|-----------------|-------|
| 888.80          | 0.687 |
| 877.60          | 0.688 |
| 592.00          | 0.652 |
| 409.60          | 0.665 |

## X-Y Pairs Table

Data Interval 10.00

| Wavelength (nm) | Abs   | Wavelength (nm) | Abs   | Wavelength (nm) | Abs   |
|-----------------|-------|-----------------|-------|-----------------|-------|
| 900.00          | 0.634 | 660.00          | 0.653 | 420.00          | 0.663 |
| 890.00          | 0.674 | 650.00          | 0.653 | 410.00          | 0.665 |
| 880.00          | 0.685 | 640.00          | 0.651 | 400.00          | 0.662 |
| 870.00          | 0.683 | 630.00          | 0.647 | 390.00          | 0.659 |
| 860.00          | 0.677 | 620.00          | 0.641 | 380.00          | 0.655 |
| 850.00          | 0.676 | 610.00          | 0.637 | 370.00          | 0.647 |
| 840.00          | 0.673 | 600.00          | 0.645 | 360.00          | 0.637 |
| 830.00          | 0.668 | 590.00          | 0.651 | 350.00          | 0.631 |
| 820.00          | 0.664 | 580.00          | 0.629 | 340.00          | 1.298 |
| 810.00          | 0.662 | 570.00          | 0.617 | 330.00          | 1.299 |
| 800.00          | 0.661 | 560.00          | 0.629 | 320.00          | 1.312 |
| 790.00          | 0.661 | 550.00          | 0.639 | 310.00          | 1.323 |
| 780.00          | 0.662 | 540.00          | 0.646 | 300.00          | 1.329 |
| 770.00          | 0.663 | 530.00          | 0.649 | 290.00          | 1.341 |
| 760.00          | 0.662 | 520.00          | 0.652 | 280.00          | 1.355 |
| 750.00          | 0.662 | 510.00          | 0.653 | 270.00          | 1.371 |
| 740.00          | 0.662 | 500.00          | 0.654 | 260.00          | 1.384 |
| 730.00          | 0.659 | 490.00          | 0.654 | 250.00          | 1.404 |
| 720.00          | 0.656 | 480.00          | 0.656 | 240.00          | 1.424 |
| 710.00          | 0.655 | 470.00          | 0.657 | 230.00          | 1.435 |
| 700.00          | 0.653 | 460.00          | 0.658 | 220.00          | 1.456 |
| 690.00          | 0.652 | 450.00          | 0.661 | 210.00          | 1.472 |
| 680.00          | 0.652 | 440.00          | 0.663 | 200.00          | 1.497 |
| 670.00          | 0.653 | 430.00          | 0.663 |                 |       |

**Sample Name: Sample 1 Rack 1 Tube 1**

Collection Time 10/17/2019 1:53:23 PM

Peak Table  
 Peak Style Peaks  
 Peak Threshold 0.0100  
 Range 900.00nm to 200.00nm

| Wavelength (nm) | Abs    |
|-----------------|--------|
| 893.60          | 0.009  |
| 889.60          | -0.001 |
| 884.00          | 0.006  |
| 867.20          | 0.007  |

**X-Y Pairs Table**

Data Interval 10.00

| Wavelength (nm) | Abs    | Wavelength (nm) | Abs    | Wavelength (nm) | Abs    |
|-----------------|--------|-----------------|--------|-----------------|--------|
| 900.00          | 0.006  | 660.00          | 0.002  | 420.00          | -0.002 |
| 890.00          | -0.009 | 650.00          | 0.001  | 410.00          | -0.003 |
| 880.00          | -0.002 | 640.00          | 0.001  | 400.00          | -0.004 |
| 870.00          | 0.000  | 630.00          | 0.001  | 390.00          | -0.004 |
| 860.00          | 0.000  | 620.00          | 0.000  | 380.00          | -0.005 |
| 850.00          | -0.001 | 610.00          | 0.001  | 370.00          | -0.004 |
| 840.00          | -0.002 | 600.00          | 0.000  | 360.00          | -0.005 |
| 830.00          | -0.001 | 590.00          | 0.000  | 350.00          | -0.005 |
| 820.00          | -0.001 | 580.00          | -0.001 | 340.00          | -0.010 |
| 810.00          | -0.002 | 570.00          | 0.000  | 330.00          | -0.006 |
| 800.00          | -0.001 | 560.00          | 0.001  | 320.00          | -0.005 |
| 790.00          | 0.000  | 550.00          | 0.000  | 310.00          | -0.007 |
| 780.00          | 0.001  | 540.00          | 0.000  | 300.00          | -0.004 |
| 770.00          | 0.000  | 530.00          | 0.001  | 290.00          | -0.008 |
| 760.00          | 0.001  | 520.00          | 0.001  | 280.00          | -0.007 |
| 750.00          | 0.000  | 510.00          | 0.000  | 270.00          | -0.008 |
| 740.00          | 0.000  | 500.00          | 0.000  | 260.00          | -0.006 |
| 730.00          | 0.001  | 490.00          | 0.000  | 250.00          | -0.010 |
| 720.00          | 0.001  | 480.00          | -0.001 | 240.00          | -0.010 |
| 710.00          | 0.001  | 470.00          | -0.002 | 230.00          | -0.005 |
| 700.00          | 0.000  | 460.00          | -0.002 | 220.00          | -0.006 |
| 690.00          | 0.001  | 450.00          | -0.002 | 210.00          | -0.004 |
| 680.00          | 0.002  | 440.00          | -0.002 | 200.00          | 0.002  |
| 670.00          | 0.001  | 430.00          | -0.001 |                 |        |

**Sample Name: Sample 2 Rack 1 Tube 2**

Collection Time 10/17/2019 1:56:36 PM

Peak Table  
 Peak Style Peaks  
 Peak Threshold 0.0100  
 Range 900.00nm to 200.00nm

| Wavelength (nm) | Abs   |
|-----------------|-------|
| 896.00          | 0.013 |
| 893.60          | 0.005 |
| 888.00          | 0.003 |
| 874.40          | 0.004 |
| 846.40          | 0.003 |

**X-Y Pairs Table**

Data Interval 10.00

| Wavelength (nm) | Abs    | Wavelength (nm) | Abs    | Wavelength (nm) | Abs    |
|-----------------|--------|-----------------|--------|-----------------|--------|
| 900.00          | 0.011  | 660.00          | 0.001  | 420.00          | -0.002 |
| 890.00          | -0.010 | 650.00          | 0.001  | 410.00          | -0.003 |
| 880.00          | -0.008 | 640.00          | 0.000  | 400.00          | -0.004 |
| 870.00          | -0.004 | 630.00          | 0.000  | 390.00          | -0.004 |
| 860.00          | 0.001  | 620.00          | -0.001 | 380.00          | -0.005 |
| 850.00          | -0.001 | 610.00          | 0.000  | 370.00          | -0.005 |
| 840.00          | -0.001 | 600.00          | -0.001 | 360.00          | -0.004 |
| 830.00          | -0.001 | 590.00          | -0.001 | 350.00          | -0.010 |

|        |        |        |        |        |        |
|--------|--------|--------|--------|--------|--------|
| 820.00 | -0.001 | 580.00 | -0.001 | 340.00 | -0.011 |
| 810.00 | -0.001 | 570.00 | 0.000  | 330.00 | -0.006 |
| 800.00 | 0.000  | 560.00 | 0.000  | 320.00 | -0.005 |
| 790.00 | 0.001  | 550.00 | 0.000  | 310.00 | -0.005 |
| 780.00 | 0.000  | 540.00 | -0.001 | 300.00 | -0.003 |
| 770.00 | 0.000  | 530.00 | 0.000  | 290.00 | -0.002 |
| 760.00 | 0.001  | 520.00 | 0.000  | 280.00 | 0.000  |
| 750.00 | 0.001  | 510.00 | 0.000  | 270.00 | 0.000  |
| 740.00 | -0.001 | 500.00 | -0.001 | 260.00 | 0.001  |
| 730.00 | 0.001  | 490.00 | 0.000  | 250.00 | 0.003  |
| 720.00 | 0.000  | 480.00 | 0.000  | 240.00 | 0.002  |
| 710.00 | 0.000  | 470.00 | -0.002 | 230.00 | 0.009  |
| 700.00 | 0.000  | 460.00 | -0.001 | 220.00 | 0.013  |
| 690.00 | 0.000  | 450.00 | -0.001 | 210.00 | 0.021  |
| 680.00 | 0.001  | 440.00 | -0.001 | 200.00 | 0.033  |
| 670.00 | 0.000  | 430.00 | -0.002 |        |        |

**Sample Name: Sample 3 Rack 1 Tube 3**

Collection Time 10/17/2019 1:59:50 PM

Peak Table  
Peak Style Peaks  
Peak Threshold 0.0100  
Range 900.00nm to 200.00nm

| Wavelength (nm) | Abs   |
|-----------------|-------|
| 897.60          | 0.004 |
| 893.60          | 0.009 |
| 889.60          | 0.000 |
| 888.00          | 0.015 |
| 881.60          | 0.007 |
| 857.60          | 0.003 |

## X-Y Pairs Table

Data Interval 10.00

| Wavelength (nm) | Abs    | Wavelength (nm) | Abs    | Wavelength (nm) | Abs    |
|-----------------|--------|-----------------|--------|-----------------|--------|
| 900.00          | 0.013  | 660.00          | 0.001  | 420.00          | -0.001 |
| 890.00          | -0.004 | 650.00          | 0.001  | 410.00          | -0.003 |
| 880.00          | -0.009 | 640.00          | 0.001  | 400.00          | -0.004 |
| 870.00          | -0.002 | 630.00          | 0.002  | 390.00          | -0.004 |
| 860.00          | 0.001  | 620.00          | 0.001  | 380.00          | -0.004 |
| 850.00          | 0.000  | 610.00          | 0.001  | 370.00          | -0.004 |
| 840.00          | -0.003 | 600.00          | 0.001  | 360.00          | -0.003 |
| 830.00          | -0.002 | 590.00          | 0.001  | 350.00          | -0.007 |
| 820.00          | 0.000  | 580.00          | 0.000  | 340.00          | -0.005 |
| 810.00          | -0.002 | 570.00          | 0.000  | 330.00          | -0.006 |
| 800.00          | -0.001 | 560.00          | 0.001  | 320.00          | -0.005 |
| 790.00          | 0.000  | 550.00          | 0.001  | 310.00          | -0.005 |
| 780.00          | 0.001  | 540.00          | 0.000  | 300.00          | -0.005 |
| 770.00          | -0.001 | 530.00          | 0.000  | 290.00          | -0.002 |
| 760.00          | 0.000  | 520.00          | 0.001  | 280.00          | 0.002  |
| 750.00          | 0.000  | 510.00          | 0.000  | 270.00          | 0.000  |
| 740.00          | 0.001  | 500.00          | 0.000  | 260.00          | 0.000  |
| 730.00          | 0.001  | 490.00          | 0.000  | 250.00          | 0.002  |
| 720.00          | 0.001  | 480.00          | 0.000  | 240.00          | 0.001  |
| 710.00          | 0.001  | 470.00          | -0.001 | 230.00          | 0.005  |
| 700.00          | 0.001  | 460.00          | -0.001 | 220.00          | 0.007  |
| 690.00          | 0.000  | 450.00          | -0.001 | 210.00          | 0.012  |
| 680.00          | 0.001  | 440.00          | -0.001 | 200.00          | 0.023  |
| 670.00          | 0.001  | 430.00          | -0.001 |                 |        |

**Sample Name: Sample 4 Rack 1 Tube 4**

Collection Time 10/17/2019 2:03:03 PM

Peak Table  
Peak Style Peaks  
Peak Threshold 0.0100  
Range 900.00nm to 200.00nm

| Wavelength (nm) | Abs   |
|-----------------|-------|
| 896.00          | 0.014 |



|        |       |
|--------|-------|
| 893.60 | 0.003 |
| 891.20 | 0.006 |
| 888.00 | 0.004 |
| 872.80 | 0.005 |

X-Y Pairs Table  
Data Interval

10.00

| Wavelength (nm) | Abs    | Wavelength (nm) | Abs    | Wavelength (nm) | Abs    |
|-----------------|--------|-----------------|--------|-----------------|--------|
| 900.00          | 0.003  | 660.00          | 0.001  | 420.00          | -0.003 |
| 890.00          | -0.011 | 650.00          | 0.001  | 410.00          | -0.004 |
| 880.00          | -0.002 | 640.00          | 0.001  | 400.00          | -0.004 |
| 870.00          | -0.001 | 630.00          | 0.001  | 390.00          | -0.005 |
| 860.00          | 0.000  | 620.00          | 0.000  | 380.00          | -0.005 |
| 850.00          | -0.002 | 610.00          | 0.000  | 370.00          | -0.005 |
| 840.00          | -0.005 | 600.00          | 0.000  | 360.00          | -0.005 |
| 830.00          | -0.001 | 590.00          | 0.000  | 350.00          | -0.008 |
| 820.00          | -0.003 | 580.00          | -0.001 | 340.00          | -0.006 |
| 810.00          | -0.002 | 570.00          | -0.001 | 330.00          | -0.007 |
| 800.00          | -0.001 | 560.00          | 0.000  | 320.00          | -0.006 |
| 790.00          | 0.001  | 550.00          | -0.001 | 310.00          | -0.005 |
| 780.00          | 0.001  | 540.00          | -0.002 | 300.00          | -0.002 |
| 770.00          | 0.000  | 530.00          | -0.002 | 290.00          | -0.004 |
| 760.00          | 0.003  | 520.00          | -0.002 | 280.00          | 0.001  |
| 750.00          | 0.002  | 510.00          | -0.003 | 270.00          | 0.002  |
| 740.00          | 0.002  | 500.00          | -0.003 | 260.00          | 0.004  |
| 730.00          | 0.002  | 490.00          | -0.003 | 250.00          | 0.004  |
| 720.00          | 0.002  | 480.00          | -0.003 | 240.00          | 0.007  |
| 710.00          | 0.002  | 470.00          | -0.003 | 230.00          | 0.010  |
| 700.00          | 0.002  | 460.00          | -0.004 | 220.00          | 0.014  |
| 690.00          | 0.001  | 450.00          | -0.003 | 210.00          | 0.021  |
| 680.00          | 0.002  | 440.00          | -0.004 | 200.00          | 0.036  |
| 670.00          | 0.001  | 430.00          | -0.003 |                 |        |

**Sample Name: Sample 5 Rack 1 Tube 5**

Collection Time 10/17/2019 2:06:15 PM

Peak Table

Peak Style

Peak Threshold

Range

Peaks

0.0100

900.00nm to 200.00nm

| Wavelength (nm) | Abs   |
|-----------------|-------|
| 892.00          | 0.006 |
| 889.60          | 0.000 |
| 879.20          | 0.003 |
| 874.40          | 0.004 |

X-Y Pairs Table  
Data Interval

10.00

| Wavelength (nm) | Abs    | Wavelength (nm) | Abs    | Wavelength (nm) | Abs    |
|-----------------|--------|-----------------|--------|-----------------|--------|
| 900.00          | 0.015  | 660.00          | 0.002  | 420.00          | -0.003 |
| 890.00          | -0.007 | 650.00          | 0.002  | 410.00          | -0.004 |
| 880.00          | -0.004 | 640.00          | 0.001  | 400.00          | -0.005 |
| 870.00          | -0.001 | 630.00          | 0.002  | 390.00          | -0.005 |
| 860.00          | 0.000  | 620.00          | 0.000  | 380.00          | -0.006 |
| 850.00          | -0.002 | 610.00          | 0.001  | 370.00          | -0.006 |
| 840.00          | -0.001 | 600.00          | 0.001  | 360.00          | -0.006 |
| 830.00          | -0.001 | 590.00          | 0.001  | 350.00          | -0.009 |
| 820.00          | 0.000  | 580.00          | 0.000  | 340.00          | -0.007 |
| 810.00          | -0.001 | 570.00          | 0.000  | 330.00          | -0.009 |
| 800.00          | 0.001  | 560.00          | 0.000  | 320.00          | -0.007 |
| 790.00          | 0.001  | 550.00          | 0.000  | 310.00          | -0.007 |
| 780.00          | 0.002  | 540.00          | -0.001 | 300.00          | -0.008 |
| 770.00          | 0.001  | 530.00          | -0.001 | 290.00          | -0.005 |
| 760.00          | 0.002  | 520.00          | -0.001 | 280.00          | -0.005 |
| 750.00          | 0.001  | 510.00          | -0.002 | 270.00          | -0.005 |
| 740.00          | 0.002  | 500.00          | -0.002 | 260.00          | -0.003 |
| 730.00          | 0.002  | 490.00          | -0.001 | 250.00          | -0.003 |
| 720.00          | 0.003  | 480.00          | -0.002 | 240.00          | -0.004 |
| 710.00          | 0.002  | 470.00          | -0.002 | 230.00          | 0.001  |
| 700.00          | 0.002  | 460.00          | -0.003 | 220.00          | 0.010  |
| 690.00          | 0.001  | 450.00          | -0.003 | 210.00          | 0.025  |
| 680.00          | 0.002  | 440.00          | -0.002 | 200.00          | 0.036  |

670.00                      0.001                      430.00                      -0.002

**Sample Name: Sample 6 Rack 1 Tube 6**

Collection Time                      10/17/2019 2:09:26 PM

Peak Table  
 Peak Style                      Peaks  
 Peak Threshold                      0.0100  
 Range                      900.00nm to 200.00nm

| Wavelength (nm) | Abs   |
|-----------------|-------|
| 897.60          | 0.008 |
| 891.20          | 0.010 |
| 888.00          | 0.009 |
| 881.60          | 0.008 |
| 872.80          | 0.005 |

X-Y Pairs Table  
 Data Interval                      10.00

| Wavelength (nm) | Abs    | Wavelength (nm) | Abs   | Wavelength (nm) | Abs   |
|-----------------|--------|-----------------|-------|-----------------|-------|
| 900.00          | 0.000  | 660.00          | 0.004 | 420.00          | 0.031 |
| 890.00          | -0.001 | 650.00          | 0.004 | 410.00          | 0.035 |
| 880.00          | -0.002 | 640.00          | 0.004 | 400.00          | 0.041 |
| 870.00          | 0.000  | 630.00          | 0.004 | 390.00          | 0.048 |
| 860.00          | 0.001  | 620.00          | 0.004 | 380.00          | 0.057 |
| 850.00          | 0.000  | 610.00          | 0.004 | 370.00          | 0.068 |
| 840.00          | -0.002 | 600.00          | 0.004 | 360.00          | 0.078 |
| 830.00          | -0.001 | 590.00          | 0.004 | 350.00          | 0.091 |
| 820.00          | -0.003 | 580.00          | 0.005 | 340.00          | 0.104 |
| 810.00          | 0.000  | 570.00          | 0.005 | 330.00          | 0.122 |
| 800.00          | 0.001  | 560.00          | 0.006 | 320.00          | 0.145 |
| 790.00          | 0.000  | 550.00          | 0.007 | 310.00          | 0.169 |
| 780.00          | 0.001  | 540.00          | 0.007 | 300.00          | 0.197 |
| 770.00          | 0.001  | 530.00          | 0.008 | 290.00          | 0.231 |
| 760.00          | 0.001  | 520.00          | 0.009 | 280.00          | 0.268 |
| 750.00          | 0.002  | 510.00          | 0.009 | 270.00          | 0.303 |
| 740.00          | 0.001  | 500.00          | 0.010 | 260.00          | 0.333 |
| 730.00          | 0.002  | 490.00          | 0.011 | 250.00          | 0.354 |
| 720.00          | 0.002  | 480.00          | 0.013 | 240.00          | 0.392 |
| 710.00          | 0.002  | 470.00          | 0.013 | 230.00          | 0.450 |
| 700.00          | 0.003  | 460.00          | 0.015 | 220.00          | 0.514 |
| 690.00          | 0.003  | 450.00          | 0.019 | 210.00          | 0.596 |
| 680.00          | 0.004  | 440.00          | 0.022 | 200.00          | 0.692 |
| 670.00          | 0.003  | 430.00          | 0.026 |                 |       |

**Sample Name: Sample 7 Rack 1 Tube 7**

Collection Time                      10/17/2019 2:12:38 PM

Peak Table  
 Peak Style                      Peaks  
 Peak Threshold                      0.0100  
 Range                      900.00nm to 200.00nm

| Wavelength (nm) | Abs   |
|-----------------|-------|
| 897.60          | 0.007 |
| 894.40          | 0.018 |
| 889.60          | 0.012 |
| 888.00          | 0.008 |
| 885.60          | 0.007 |
| 879.20          | 0.007 |
| 328.00          | 0.067 |

X-Y Pairs Table  
 Data Interval                      10.00

| Wavelength (nm) | Abs    | Wavelength (nm) | Abs   | Wavelength (nm) | Abs   |
|-----------------|--------|-----------------|-------|-----------------|-------|
| 900.00          | 0.024  | 660.00          | 0.002 | 420.00          | 0.012 |
| 890.00          | 0.006  | 650.00          | 0.002 | 410.00          | 0.013 |
| 880.00          | -0.008 | 640.00          | 0.001 | 400.00          | 0.015 |
| 870.00          | -0.001 | 630.00          | 0.001 | 390.00          | 0.018 |

|        |        |        |       |        |       |
|--------|--------|--------|-------|--------|-------|
| 860.00 | 0.003  | 620.00 | 0.001 | 380.00 | 0.022 |
| 850.00 | 0.000  | 610.00 | 0.002 | 370.00 | 0.028 |
| 840.00 | -0.001 | 600.00 | 0.001 | 360.00 | 0.035 |
| 830.00 | 0.000  | 590.00 | 0.002 | 350.00 | 0.037 |
| 820.00 | 0.000  | 580.00 | 0.002 | 340.00 | 0.047 |
| 810.00 | 0.000  | 570.00 | 0.002 | 330.00 | 0.057 |
| 800.00 | 0.001  | 560.00 | 0.003 | 320.00 | 0.073 |
| 790.00 | 0.002  | 550.00 | 0.003 | 310.00 | 0.085 |
| 780.00 | 0.002  | 540.00 | 0.003 | 300.00 | 0.105 |
| 770.00 | 0.001  | 530.00 | 0.005 | 290.00 | 0.127 |
| 760.00 | 0.002  | 520.00 | 0.006 | 280.00 | 0.154 |
| 750.00 | 0.002  | 510.00 | 0.006 | 270.00 | 0.179 |
| 740.00 | 0.000  | 500.00 | 0.006 | 260.00 | 0.200 |
| 730.00 | 0.001  | 490.00 | 0.006 | 250.00 | 0.218 |
| 720.00 | 0.002  | 480.00 | 0.006 | 240.00 | 0.244 |
| 710.00 | 0.002  | 470.00 | 0.007 | 230.00 | 0.319 |
| 700.00 | 0.001  | 460.00 | 0.007 | 220.00 | 0.489 |
| 690.00 | 0.002  | 450.00 | 0.008 | 210.00 | 0.744 |
| 680.00 | 0.002  | 440.00 | 0.009 | 200.00 | 0.921 |
| 670.00 | 0.001  | 430.00 | 0.010 |        |       |

**Sample Name: Sample 8 Rack 1 Tube 8**

Collection Time 10/17/2019 2:15:51 PM

Peak Table  
Peak Style Peaks  
Peak Threshold 0.0100  
Range 900.00nm to 200.00nm

| Wavelength (nm) | Abs   |
|-----------------|-------|
| 893.60          | 0.008 |
| 892.00          | 0.010 |
| 888.00          | 0.009 |
| 884.80          | 0.006 |
| 882.40          | 0.007 |
| 876.00          | 0.004 |
| 872.80          | 0.007 |

X-Y Pairs Table  
Data Interval 10.00

| Wavelength (nm) | Abs    | Wavelength (nm) | Abs   | Wavelength (nm) | Abs   |
|-----------------|--------|-----------------|-------|-----------------|-------|
| 900.00          | -0.003 | 660.00          | 0.004 | 420.00          | 0.022 |
| 890.00          | -0.004 | 650.00          | 0.005 | 410.00          | 0.025 |
| 880.00          | 0.001  | 640.00          | 0.003 | 400.00          | 0.028 |
| 870.00          | -0.001 | 630.00          | 0.004 | 390.00          | 0.033 |
| 860.00          | 0.002  | 620.00          | 0.003 | 380.00          | 0.040 |
| 850.00          | 0.000  | 610.00          | 0.004 | 370.00          | 0.049 |
| 840.00          | 0.001  | 600.00          | 0.003 | 360.00          | 0.058 |
| 830.00          | 0.001  | 590.00          | 0.004 | 350.00          | 0.067 |
| 820.00          | 0.000  | 580.00          | 0.004 | 340.00          | 0.079 |
| 810.00          | 0.000  | 570.00          | 0.004 | 330.00          | 0.094 |
| 800.00          | 0.000  | 560.00          | 0.006 | 320.00          | 0.110 |
| 790.00          | 0.002  | 550.00          | 0.006 | 310.00          | 0.130 |
| 780.00          | 0.003  | 540.00          | 0.005 | 300.00          | 0.155 |
| 770.00          | 0.002  | 530.00          | 0.007 | 290.00          | 0.181 |
| 760.00          | 0.002  | 520.00          | 0.008 | 280.00          | 0.213 |
| 750.00          | 0.003  | 510.00          | 0.007 | 270.00          | 0.246 |
| 740.00          | 0.003  | 500.00          | 0.007 | 260.00          | 0.270 |
| 730.00          | 0.003  | 490.00          | 0.008 | 250.00          | 0.294 |
| 720.00          | 0.003  | 480.00          | 0.009 | 240.00          | 0.326 |
| 710.00          | 0.002  | 470.00          | 0.009 | 230.00          | 0.372 |
| 700.00          | 0.003  | 460.00          | 0.010 | 220.00          | 0.431 |
| 690.00          | 0.003  | 450.00          | 0.013 | 210.00          | 0.504 |
| 680.00          | 0.004  | 440.00          | 0.015 | 200.00          | 0.574 |
| 670.00          | 0.003  | 430.00          | 0.018 |                 |       |

**Sample Name: Sample 9 Rack 1 Tube 9**

Collection Time 10/17/2019 2:19:03 PM

Peak Table  
Peak Style Peaks  
Peak Threshold 0.0100

Range 900.00nm to 200.00nm

| Wavelength (nm) | Abs   |
|-----------------|-------|
| 898.40          | 0.005 |
| 895.20          | 0.001 |
| 889.60          | 0.002 |
| 888.00          | 0.005 |
| 882.40          | 0.004 |
| 872.80          | 0.004 |

## X-Y Pairs Table

Data Interval 10.00

| Wavelength (nm) | Abs    | Wavelength (nm) | Abs    | Wavelength (nm) | Abs    |
|-----------------|--------|-----------------|--------|-----------------|--------|
| 900.00          | -0.002 | 660.00          | 0.001  | 420.00          | 0.001  |
| 890.00          | -0.003 | 650.00          | 0.001  | 410.00          | 0.000  |
| 880.00          | -0.006 | 640.00          | 0.001  | 400.00          | -0.001 |
| 870.00          | -0.001 | 630.00          | 0.001  | 390.00          | -0.002 |
| 860.00          | 0.002  | 620.00          | 0.000  | 380.00          | -0.004 |
| 850.00          | -0.001 | 610.00          | 0.000  | 370.00          | -0.004 |
| 840.00          | 0.000  | 600.00          | 0.000  | 360.00          | -0.004 |
| 830.00          | 0.000  | 590.00          | 0.000  | 350.00          | -0.008 |
| 820.00          | 0.000  | 580.00          | 0.000  | 340.00          | -0.010 |
| 810.00          | 0.001  | 570.00          | 0.000  | 330.00          | -0.010 |
| 800.00          | 0.002  | 560.00          | 0.001  | 320.00          | -0.009 |
| 790.00          | 0.002  | 550.00          | 0.000  | 310.00          | -0.007 |
| 780.00          | 0.003  | 540.00          | 0.000  | 300.00          | -0.006 |
| 770.00          | 0.001  | 530.00          | 0.000  | 290.00          | -0.008 |
| 760.00          | 0.002  | 520.00          | 0.000  | 280.00          | -0.007 |
| 750.00          | 0.002  | 510.00          | 0.000  | 270.00          | -0.006 |
| 740.00          | 0.001  | 500.00          | 0.000  | 260.00          | -0.005 |
| 730.00          | 0.001  | 490.00          | -0.001 | 250.00          | -0.005 |
| 720.00          | 0.002  | 480.00          | -0.001 | 240.00          | -0.007 |
| 710.00          | 0.002  | 470.00          | -0.001 | 230.00          | -0.003 |
| 700.00          | 0.002  | 460.00          | -0.002 | 220.00          | -0.004 |
| 690.00          | 0.002  | 450.00          | -0.001 | 210.00          | -0.003 |
| 680.00          | 0.002  | 440.00          | -0.001 | 200.00          | 0.000  |
| 670.00          | 0.001  | 430.00          | 0.000  |                 |        |

**Sample Name: Sample 10 Rack 1 Tube 10**

Collection Time 10/17/2019 2:22:15 PM

## Peak Table

Peak Style

Peaks

Peak Threshold

0.0100

Range

900.00nm to 200.00nm

| Wavelength (nm) | Abs   |
|-----------------|-------|
| 893.60          | 0.005 |
| 888.00          | 0.006 |
| 884.00          | 0.001 |
| 882.40          | 0.004 |
| 879.20          | 0.008 |
| 874.40          | 0.005 |
| 328.00          | 0.040 |

## X-Y Pairs Table

Data Interval 10.00

| Wavelength (nm) | Abs    | Wavelength (nm) | Abs   | Wavelength (nm) | Abs   |
|-----------------|--------|-----------------|-------|-----------------|-------|
| 900.00          | -0.006 | 660.00          | 0.002 | 420.00          | 0.008 |
| 890.00          | -0.006 | 650.00          | 0.002 | 410.00          | 0.009 |
| 880.00          | -0.010 | 640.00          | 0.002 | 400.00          | 0.011 |
| 870.00          | 0.001  | 630.00          | 0.002 | 390.00          | 0.012 |
| 860.00          | 0.001  | 620.00          | 0.001 | 380.00          | 0.015 |
| 850.00          | 0.001  | 610.00          | 0.001 | 370.00          | 0.017 |
| 840.00          | -0.003 | 600.00          | 0.002 | 360.00          | 0.019 |
| 830.00          | 0.001  | 590.00          | 0.002 | 350.00          | 0.022 |
| 820.00          | 0.000  | 580.00          | 0.001 | 340.00          | 0.027 |
| 810.00          | 0.000  | 570.00          | 0.002 | 330.00          | 0.030 |
| 800.00          | 0.001  | 560.00          | 0.003 | 320.00          | 0.036 |
| 790.00          | 0.001  | 550.00          | 0.003 | 310.00          | 0.047 |
| 780.00          | 0.002  | 540.00          | 0.002 | 300.00          | 0.057 |
| 770.00          | 0.001  | 530.00          | 0.003 | 290.00          | 0.070 |

|        |       |        |       |        |       |
|--------|-------|--------|-------|--------|-------|
| 760.00 | 0.001 | 520.00 | 0.003 | 280.00 | 0.088 |
| 750.00 | 0.002 | 510.00 | 0.004 | 270.00 | 0.104 |
| 740.00 | 0.001 | 500.00 | 0.004 | 260.00 | 0.117 |
| 730.00 | 0.001 | 490.00 | 0.005 | 250.00 | 0.126 |
| 720.00 | 0.001 | 480.00 | 0.005 | 240.00 | 0.135 |
| 710.00 | 0.001 | 470.00 | 0.005 | 230.00 | 0.159 |
| 700.00 | 0.002 | 460.00 | 0.004 | 220.00 | 0.186 |
| 690.00 | 0.002 | 450.00 | 0.005 | 210.00 | 0.218 |
| 680.00 | 0.002 | 440.00 | 0.006 | 200.00 | 0.251 |
| 670.00 | 0.002 | 430.00 | 0.007 |        |       |

**Sample Name: Sample 11 Rack 1 Tube 11**

Collection Time 10/17/2019 2:25:26 PM

Peak Table  
Peak Style Peaks  
Peak Threshold 0.0100  
Range 900.00nm to 200.00nm

| Wavelength (nm) | Abs    |
|-----------------|--------|
| 897.60          | 0.002  |
| 895.20          | -0.001 |
| 888.00          | 0.006  |
| 881.60          | 0.006  |
| 874.40          | 0.005  |
| 854.40          | 0.005  |

X-Y Pairs Table  
Data Interval 10.00

| Wavelength (nm) | Abs    | Wavelength (nm) | Abs   | Wavelength (nm) | Abs    |
|-----------------|--------|-----------------|-------|-----------------|--------|
| 900.00          | -0.004 | 660.00          | 0.001 | 420.00          | -0.001 |
| 890.00          | -0.008 | 650.00          | 0.001 | 410.00          | -0.001 |
| 880.00          | -0.007 | 640.00          | 0.000 | 400.00          | -0.002 |
| 870.00          | -0.005 | 630.00          | 0.001 | 390.00          | -0.002 |
| 860.00          | 0.002  | 620.00          | 0.000 | 380.00          | -0.004 |
| 850.00          | -0.002 | 610.00          | 0.001 | 370.00          | -0.003 |
| 840.00          | -0.004 | 600.00          | 0.000 | 360.00          | -0.004 |
| 830.00          | 0.000  | 590.00          | 0.000 | 350.00          | -0.008 |
| 820.00          | -0.002 | 580.00          | 0.000 | 340.00          | -0.007 |
| 810.00          | 0.000  | 570.00          | 0.000 | 330.00          | -0.002 |
| 800.00          | -0.001 | 560.00          | 0.001 | 320.00          | -0.003 |
| 790.00          | 0.000  | 550.00          | 0.001 | 310.00          | -0.001 |
| 780.00          | 0.001  | 540.00          | 0.000 | 300.00          | 0.002  |
| 770.00          | 0.000  | 530.00          | 0.001 | 290.00          | 0.004  |
| 760.00          | 0.001  | 520.00          | 0.002 | 280.00          | 0.005  |
| 750.00          | 0.001  | 510.00          | 0.001 | 270.00          | 0.009  |
| 740.00          | 0.000  | 500.00          | 0.000 | 260.00          | 0.011  |
| 730.00          | 0.000  | 490.00          | 0.000 | 250.00          | 0.009  |
| 720.00          | 0.000  | 480.00          | 0.000 | 240.00          | 0.009  |
| 710.00          | 0.000  | 470.00          | 0.000 | 230.00          | 0.016  |
| 700.00          | 0.001  | 460.00          | 0.000 | 220.00          | 0.021  |
| 690.00          | 0.000  | 450.00          | 0.000 | 210.00          | 0.029  |
| 680.00          | 0.001  | 440.00          | 0.000 | 200.00          | 0.046  |
| 670.00          | 0.000  | 430.00          | 0.000 |                 |        |

**Sample Name: Sample 12 Rack 1 Tube 12**

Collection Time 10/17/2019 2:28:38 PM

Peak Table  
Peak Style Peaks  
Peak Threshold 0.0100  
Range 900.00nm to 200.00nm

| Wavelength (nm) | Abs   |
|-----------------|-------|
| 897.60          | 0.005 |
| 895.20          | 0.007 |
| 888.00          | 0.014 |
| 885.60          | 0.003 |

X-Y Pairs Table  
Data Interval 10.00

| Wavelength (nm) | Abs    | Wavelength (nm) | Abs   | Wavelength (nm) | Abs   |
|-----------------|--------|-----------------|-------|-----------------|-------|
| 900.00          | -0.005 | 660.00          | 0.001 | 420.00          | 0.001 |
| 890.00          | -0.009 | 650.00          | 0.001 | 410.00          | 0.001 |
| 880.00          | -0.004 | 640.00          | 0.001 | 400.00          | 0.001 |
| 870.00          | -0.001 | 630.00          | 0.002 | 390.00          | 0.002 |
| 860.00          | 0.003  | 620.00          | 0.001 | 380.00          | 0.003 |
| 850.00          | 0.001  | 610.00          | 0.001 | 370.00          | 0.005 |
| 840.00          | 0.002  | 600.00          | 0.001 | 360.00          | 0.004 |
| 830.00          | 0.000  | 590.00          | 0.001 | 350.00          | 0.007 |
| 820.00          | -0.003 | 580.00          | 0.000 | 340.00          | 0.002 |
| 810.00          | 0.000  | 570.00          | 0.001 | 330.00          | 0.008 |
| 800.00          | 0.001  | 560.00          | 0.002 | 320.00          | 0.011 |
| 790.00          | 0.002  | 550.00          | 0.001 | 310.00          | 0.016 |
| 780.00          | 0.002  | 540.00          | 0.001 | 300.00          | 0.023 |
| 770.00          | 0.000  | 530.00          | 0.001 | 290.00          | 0.026 |
| 760.00          | 0.002  | 520.00          | 0.001 | 280.00          | 0.032 |
| 750.00          | 0.001  | 510.00          | 0.001 | 270.00          | 0.039 |
| 740.00          | 0.001  | 500.00          | 0.001 | 260.00          | 0.045 |
| 730.00          | 0.001  | 490.00          | 0.002 | 250.00          | 0.050 |
| 720.00          | 0.001  | 480.00          | 0.001 | 240.00          | 0.053 |
| 710.00          | 0.000  | 470.00          | 0.001 | 230.00          | 0.063 |
| 700.00          | 0.000  | 460.00          | 0.000 | 220.00          | 0.076 |
| 690.00          | 0.001  | 450.00          | 0.001 | 210.00          | 0.095 |
| 680.00          | 0.001  | 440.00          | 0.001 | 200.00          | 0.119 |
| 670.00          | 0.001  | 430.00          | 0.001 |                 |       |

**Sample Name: Sample 13 Rack 1 Tube 13**

Collection Time 10/17/2019 2:31:51 PM

## Peak Table

Peak Style

Peak Threshold

Range

## Peaks

0.0100

900.00nm to 200.00nm

| Wavelength (nm) | Abs   |
|-----------------|-------|
| 898.40          | 0.000 |
| 893.60          | 0.020 |
| 890.40          | 0.001 |
| 888.00          | 0.008 |
| 882.40          | 0.005 |
| 879.20          | 0.007 |
| 867.20          | 0.005 |

## X-Y Pairs Table

Data Interval

10.00

| Wavelength (nm) | Abs    | Wavelength (nm) | Abs    | Wavelength (nm) | Abs    |
|-----------------|--------|-----------------|--------|-----------------|--------|
| 900.00          | -0.005 | 660.00          | 0.001  | 420.00          | -0.001 |
| 890.00          | 0.001  | 650.00          | 0.001  | 410.00          | -0.002 |
| 880.00          | -0.008 | 640.00          | 0.001  | 400.00          | -0.003 |
| 870.00          | -0.002 | 630.00          | 0.001  | 390.00          | -0.004 |
| 860.00          | 0.001  | 620.00          | 0.000  | 380.00          | -0.004 |
| 850.00          | -0.001 | 610.00          | 0.001  | 370.00          | -0.004 |
| 840.00          | 0.000  | 600.00          | 0.001  | 360.00          | -0.004 |
| 830.00          | -0.001 | 590.00          | 0.000  | 350.00          | -0.006 |
| 820.00          | -0.001 | 580.00          | 0.000  | 340.00          | -0.008 |
| 810.00          | -0.001 | 570.00          | 0.001  | 330.00          | -0.005 |
| 800.00          | -0.001 | 560.00          | 0.001  | 320.00          | -0.002 |
| 790.00          | 0.000  | 550.00          | 0.001  | 310.00          | -0.003 |
| 780.00          | 0.000  | 540.00          | 0.000  | 300.00          | 0.000  |
| 770.00          | 0.001  | 530.00          | 0.000  | 290.00          | 0.001  |
| 760.00          | 0.001  | 520.00          | 0.000  | 280.00          | 0.004  |
| 750.00          | 0.002  | 510.00          | -0.001 | 270.00          | 0.005  |
| 740.00          | 0.001  | 500.00          | -0.001 | 260.00          | 0.006  |
| 730.00          | 0.002  | 490.00          | 0.000  | 250.00          | 0.005  |
| 720.00          | 0.002  | 480.00          | -0.001 | 240.00          | 0.003  |
| 710.00          | 0.000  | 470.00          | -0.002 | 230.00          | 0.009  |
| 700.00          | 0.001  | 460.00          | -0.002 | 220.00          | 0.012  |
| 690.00          | 0.001  | 450.00          | -0.001 | 210.00          | 0.020  |
| 680.00          | 0.001  | 440.00          | -0.001 | 200.00          | 0.028  |
| 670.00          | 0.001  | 430.00          | -0.002 |                 |        |

**Sample Name: Sample 14 Rack 1 Tube 14**

Collection Time 10/17/2019 2:35:04 PM

Peak Table  
 Peak Style Peaks  
 Peak Threshold 0.0100  
 Range 900.00nm to 200.00nm

| Wavelength (nm) | Abs   |
|-----------------|-------|
| 896.80          | 0.004 |
| 893.60          | 0.021 |
| 888.00          | 0.015 |
| 876.00          | 0.006 |
| 864.80          | 0.007 |

## X-Y Pairs Table

Data Interval 10.00

| Wavelength (nm) | Abs    | Wavelength (nm) | Abs   | Wavelength (nm) | Abs   |
|-----------------|--------|-----------------|-------|-----------------|-------|
| 900.00          | 0.002  | 660.00          | 0.002 | 420.00          | 0.011 |
| 890.00          | -0.003 | 650.00          | 0.002 | 410.00          | 0.013 |
| 880.00          | -0.002 | 640.00          | 0.002 | 400.00          | 0.015 |
| 870.00          | 0.003  | 630.00          | 0.003 | 390.00          | 0.018 |
| 860.00          | 0.003  | 620.00          | 0.002 | 380.00          | 0.021 |
| 850.00          | -0.001 | 610.00          | 0.002 | 370.00          | 0.026 |
| 840.00          | -0.004 | 600.00          | 0.002 | 360.00          | 0.032 |
| 830.00          | -0.001 | 590.00          | 0.003 | 350.00          | 0.039 |
| 820.00          | -0.002 | 580.00          | 0.002 | 340.00          | 0.046 |
| 810.00          | -0.003 | 570.00          | 0.002 | 330.00          | 0.054 |
| 800.00          | 0.000  | 560.00          | 0.003 | 320.00          | 0.063 |
| 790.00          | 0.001  | 550.00          | 0.003 | 310.00          | 0.074 |
| 780.00          | 0.000  | 540.00          | 0.003 | 300.00          | 0.087 |
| 770.00          | -0.001 | 530.00          | 0.004 | 290.00          | 0.101 |
| 760.00          | 0.001  | 520.00          | 0.005 | 280.00          | 0.120 |
| 750.00          | 0.001  | 510.00          | 0.005 | 270.00          | 0.137 |
| 740.00          | 0.001  | 500.00          | 0.006 | 260.00          | 0.152 |
| 730.00          | 0.001  | 490.00          | 0.006 | 250.00          | 0.165 |
| 720.00          | 0.002  | 480.00          | 0.007 | 240.00          | 0.182 |
| 710.00          | 0.002  | 470.00          | 0.007 | 230.00          | 0.211 |
| 700.00          | 0.001  | 460.00          | 0.006 | 220.00          | 0.240 |
| 690.00          | 0.002  | 450.00          | 0.007 | 210.00          | 0.279 |
| 680.00          | 0.002  | 440.00          | 0.008 | 200.00          | 0.319 |
| 670.00          | 0.002  | 430.00          | 0.010 |                 |       |

**Sample Name: Sample 15 Rack 1 Tube 15**

Collection Time 10/17/2019 2:38:15 PM

Peak Table  
 Peak Style Peaks  
 Peak Threshold 0.0100  
 Range 900.00nm to 200.00nm

| Wavelength (nm) | Abs   |
|-----------------|-------|
| 898.40          | 0.020 |
| 894.40          | 0.004 |
| 888.00          | 0.015 |
| 874.40          | 0.009 |

## X-Y Pairs Table

Data Interval 10.00

| Wavelength (nm) | Abs    | Wavelength (nm) | Abs   | Wavelength (nm) | Abs    |
|-----------------|--------|-----------------|-------|-----------------|--------|
| 900.00          | -0.002 | 660.00          | 0.001 | 420.00          | 0.000  |
| 890.00          | -0.003 | 650.00          | 0.001 | 410.00          | -0.001 |
| 880.00          | -0.004 | 640.00          | 0.002 | 400.00          | -0.001 |
| 870.00          | -0.002 | 630.00          | 0.002 | 390.00          | -0.002 |
| 860.00          | 0.001  | 620.00          | 0.001 | 380.00          | -0.003 |
| 850.00          | -0.001 | 610.00          | 0.001 | 370.00          | -0.002 |
| 840.00          | 0.000  | 600.00          | 0.001 | 360.00          | -0.004 |
| 830.00          | 0.001  | 590.00          | 0.001 | 350.00          | -0.006 |
| 820.00          | -0.001 | 580.00          | 0.001 | 340.00          | -0.006 |
| 810.00          | 0.000  | 570.00          | 0.001 | 330.00          | -0.004 |

|        |       |        |       |        |        |
|--------|-------|--------|-------|--------|--------|
| 800.00 | 0.000 | 560.00 | 0.001 | 320.00 | -0.005 |
| 790.00 | 0.001 | 550.00 | 0.002 | 310.00 | -0.001 |
| 780.00 | 0.001 | 540.00 | 0.001 | 300.00 | -0.001 |
| 770.00 | 0.000 | 530.00 | 0.002 | 290.00 | 0.002  |
| 760.00 | 0.002 | 520.00 | 0.001 | 280.00 | 0.005  |
| 750.00 | 0.002 | 510.00 | 0.001 | 270.00 | 0.004  |
| 740.00 | 0.001 | 500.00 | 0.001 | 260.00 | 0.009  |
| 730.00 | 0.001 | 490.00 | 0.002 | 250.00 | 0.007  |
| 720.00 | 0.002 | 480.00 | 0.002 | 240.00 | 0.010  |
| 710.00 | 0.001 | 470.00 | 0.001 | 230.00 | 0.015  |
| 700.00 | 0.002 | 460.00 | 0.001 | 220.00 | 0.018  |
| 690.00 | 0.002 | 450.00 | 0.001 | 210.00 | 0.027  |
| 680.00 | 0.002 | 440.00 | 0.001 | 200.00 | 0.042  |
| 670.00 | 0.002 | 430.00 | 0.000 |        |        |

**Sample Name: Sample 16 Rack 1 Tube 16**

Collection Time 10/17/2019 2:41:27 PM

## Peak Table

Peak Style

Peak Threshold

Range

Peaks

0.0100

900.00nm to 200.00nm

Wavelength (nm) Abs

|        |        |
|--------|--------|
| 896.80 | -0.006 |
| 893.60 | 0.003  |
| 889.60 | 0.005  |
| 888.00 | 0.008  |
| 881.60 | 0.006  |
| 874.40 | 0.005  |
| 872.80 | 0.008  |

## X-Y Pairs Table

Data Interval

10.00

| Wavelength (nm) | Abs    | Wavelength (nm) | Abs    | Wavelength (nm) | Abs    |
|-----------------|--------|-----------------|--------|-----------------|--------|
| 900.00          | -0.004 | 660.00          | 0.004  | 420.00          | -0.001 |
| 890.00          | 0.003  | 650.00          | 0.004  | 410.00          | -0.002 |
| 880.00          | -0.008 | 640.00          | 0.003  | 400.00          | -0.003 |
| 870.00          | 0.000  | 630.00          | 0.003  | 390.00          | -0.003 |
| 860.00          | 0.001  | 620.00          | 0.002  | 380.00          | -0.004 |
| 850.00          | -0.001 | 610.00          | 0.002  | 370.00          | -0.004 |
| 840.00          | -0.001 | 600.00          | 0.001  | 360.00          | -0.004 |
| 830.00          | -0.001 | 590.00          | 0.002  | 350.00          | -0.007 |
| 820.00          | -0.001 | 580.00          | 0.001  | 340.00          | -0.005 |
| 810.00          | -0.001 | 570.00          | 0.002  | 330.00          | -0.007 |
| 800.00          | -0.001 | 560.00          | 0.002  | 320.00          | -0.002 |
| 790.00          | 0.000  | 550.00          | 0.002  | 310.00          | -0.003 |
| 780.00          | 0.001  | 540.00          | 0.001  | 300.00          | -0.002 |
| 770.00          | 0.000  | 530.00          | 0.002  | 290.00          | -0.001 |
| 760.00          | 0.003  | 520.00          | 0.003  | 280.00          | 0.004  |
| 750.00          | 0.002  | 510.00          | 0.002  | 270.00          | 0.002  |
| 740.00          | 0.002  | 500.00          | 0.002  | 260.00          | 0.004  |
| 730.00          | 0.003  | 490.00          | 0.002  | 250.00          | 0.004  |
| 720.00          | 0.004  | 480.00          | 0.001  | 240.00          | 0.004  |
| 710.00          | 0.003  | 470.00          | 0.000  | 230.00          | 0.008  |
| 700.00          | 0.003  | 460.00          | 0.000  | 220.00          | 0.008  |
| 690.00          | 0.003  | 450.00          | 0.000  | 210.00          | 0.014  |
| 680.00          | 0.005  | 440.00          | -0.001 | 200.00          | 0.028  |
| 670.00          | 0.004  | 430.00          | 0.000  |                 |        |

**Sample Name: Sample 17 Rack 1 Tube 17**

Collection Time 10/17/2019 2:44:40 PM

## Peak Table

Peak Style

Peak Threshold

Range

Peaks

0.0100

900.00nm to 200.00nm

Wavelength (nm) Abs

|        |       |
|--------|-------|
| 897.60 | 0.008 |
| 892.80 | 0.006 |



|        |        |
|--------|--------|
| 889.60 | -0.002 |
| 888.00 | 0.008  |
| 884.00 | 0.006  |
| 879.20 | 0.005  |

X-Y Pairs Table  
Data Interval

10.00

| Wavelength (nm) | Abs    | Wavelength (nm) | Abs   | Wavelength (nm) | Abs   |
|-----------------|--------|-----------------|-------|-----------------|-------|
| 900.00          | 0.003  | 660.00          | 0.004 | 420.00          | 0.029 |
| 890.00          | -0.003 | 650.00          | 0.003 | 410.00          | 0.033 |
| 880.00          | 0.003  | 640.00          | 0.004 | 400.00          | 0.039 |
| 870.00          | 0.000  | 630.00          | 0.004 | 390.00          | 0.047 |
| 860.00          | 0.002  | 620.00          | 0.004 | 380.00          | 0.056 |
| 850.00          | 0.000  | 610.00          | 0.004 | 370.00          | 0.067 |
| 840.00          | -0.002 | 600.00          | 0.004 | 360.00          | 0.080 |
| 830.00          | 0.000  | 590.00          | 0.005 | 350.00          | 0.091 |
| 820.00          | 0.000  | 580.00          | 0.005 | 340.00          | 0.105 |
| 810.00          | 0.001  | 570.00          | 0.005 | 330.00          | 0.122 |
| 800.00          | 0.001  | 560.00          | 0.006 | 320.00          | 0.145 |
| 790.00          | 0.002  | 550.00          | 0.007 | 310.00          | 0.166 |
| 780.00          | 0.003  | 540.00          | 0.007 | 300.00          | 0.195 |
| 770.00          | 0.002  | 530.00          | 0.008 | 290.00          | 0.221 |
| 760.00          | 0.003  | 520.00          | 0.010 | 280.00          | 0.257 |
| 750.00          | 0.003  | 510.00          | 0.010 | 270.00          | 0.287 |
| 740.00          | 0.003  | 500.00          | 0.011 | 260.00          | 0.315 |
| 730.00          | 0.002  | 490.00          | 0.013 | 250.00          | 0.334 |
| 720.00          | 0.004  | 480.00          | 0.014 | 240.00          | 0.368 |
| 710.00          | 0.003  | 470.00          | 0.016 | 230.00          | 0.420 |
| 700.00          | 0.003  | 460.00          | 0.017 | 220.00          | 0.473 |
| 690.00          | 0.003  | 450.00          | 0.020 | 210.00          | 0.536 |
| 680.00          | 0.003  | 440.00          | 0.022 | 200.00          | 0.567 |
| 670.00          | 0.003  | 430.00          | 0.025 |                 |       |

**Sample Name: Sample 18 Rack 1 Tube 18**

Collection Time 10/17/2019 2:47:52 PM

## Peak Table

Peak Style

Peak Threshold

Range

Peaks

0.0100

900.00nm to 200.00nm

| Wavelength (nm) | Abs    |
|-----------------|--------|
| 897.60          | 0.004  |
| 893.60          | 0.008  |
| 892.00          | -0.003 |
| 888.00          | 0.008  |
| 882.40          | 0.007  |
| 879.20          | 0.008  |
| 872.80          | 0.010  |

X-Y Pairs Table  
Data Interval

10.00

| Wavelength (nm) | Abs    | Wavelength (nm) | Abs   | Wavelength (nm) | Abs    |
|-----------------|--------|-----------------|-------|-----------------|--------|
| 900.00          | -0.009 | 660.00          | 0.003 | 420.00          | 0.000  |
| 890.00          | -0.004 | 650.00          | 0.002 | 410.00          | 0.000  |
| 880.00          | 0.001  | 640.00          | 0.002 | 400.00          | -0.001 |
| 870.00          | 0.000  | 630.00          | 0.003 | 390.00          | -0.002 |
| 860.00          | 0.003  | 620.00          | 0.002 | 380.00          | -0.003 |
| 850.00          | -0.001 | 610.00          | 0.003 | 370.00          | -0.003 |
| 840.00          | -0.002 | 600.00          | 0.003 | 360.00          | -0.002 |
| 830.00          | -0.002 | 590.00          | 0.003 | 350.00          | -0.005 |
| 820.00          | 0.001  | 580.00          | 0.003 | 340.00          | -0.007 |
| 810.00          | -0.001 | 570.00          | 0.003 | 330.00          | -0.008 |
| 800.00          | 0.001  | 560.00          | 0.003 | 320.00          | -0.006 |
| 790.00          | 0.001  | 550.00          | 0.003 | 310.00          | -0.007 |
| 780.00          | 0.001  | 540.00          | 0.002 | 300.00          | -0.004 |
| 770.00          | 0.001  | 530.00          | 0.002 | 290.00          | -0.003 |
| 760.00          | 0.002  | 520.00          | 0.003 | 280.00          | -0.002 |
| 750.00          | 0.002  | 510.00          | 0.002 | 270.00          | 0.000  |
| 740.00          | 0.001  | 500.00          | 0.002 | 260.00          | -0.001 |
| 730.00          | 0.002  | 490.00          | 0.002 | 250.00          | 0.000  |
| 720.00          | 0.001  | 480.00          | 0.002 | 240.00          | -0.004 |
| 710.00          | 0.002  | 470.00          | 0.000 | 230.00          | 0.000  |

|        |       |        |       |        |        |
|--------|-------|--------|-------|--------|--------|
| 700.00 | 0.001 | 460.00 | 0.000 | 220.00 | -0.002 |
| 690.00 | 0.002 | 450.00 | 0.000 | 210.00 | 0.002  |
| 680.00 | 0.003 | 440.00 | 0.000 | 200.00 | 0.002  |
| 670.00 | 0.003 | 430.00 | 0.001 |        |        |