

## **Appendix I**

### **UV Absorbance Spectrum – Day-30 Solution Samples**

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Figure I-1 UV Absorbance Spectrum for Test #4 Day-30 Solution Samples. ....I-4

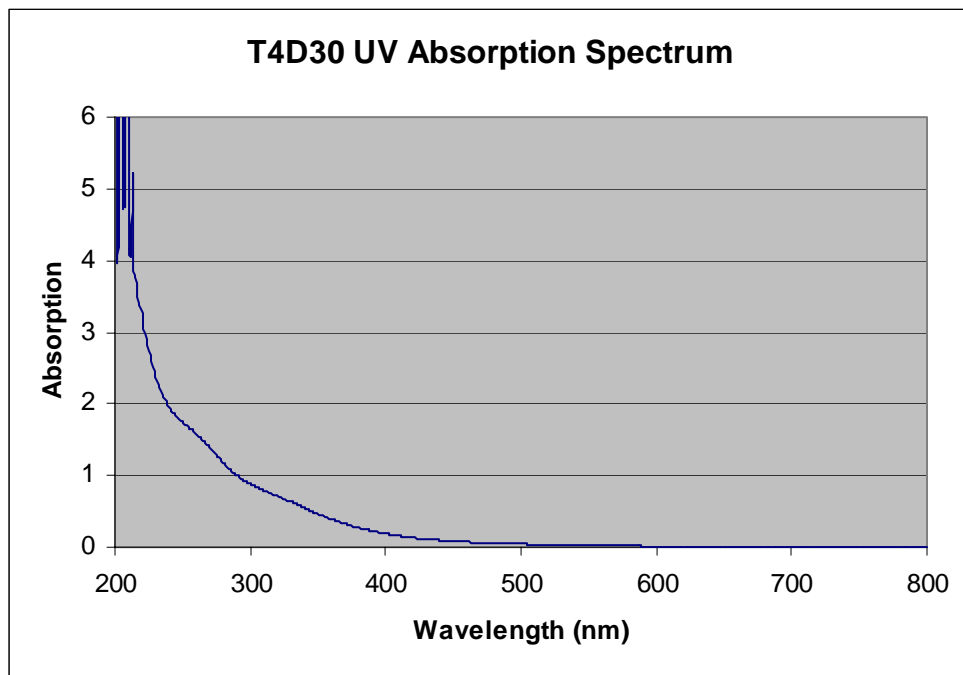
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This appendix presents the UV absorbance result of the Test #4 Day-30 solution sample. The purpose of this analysis was to find any distinguishing absorbance peaks to identify the organics present in the solution. The solution sample was collected through a 0.7  $\mu\text{m}$  fiberglass filter at 60  $^{\circ}\text{C}$  to remove particulate impurities, followed by being scanned over the wavelength ranging from 200 to 800 nm by a UV-visible spectrophotometer. The spectrum of DI water was used as background subtraction. From the result, no distinguishing absorbance peaks were found due to the well-mixed nature of the test solution.

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**Figure I-1 UV Absorbance Spectrum for Test #4 Day-30 Solution Samples.**

**Table I-1: Test #4 Day-30 Solution Sample Laboratory Settings.**

<b>Test #4 Day-30</b>	
Collection Time:	7/21/2005 5:15:30 PM
Operator Name:	
Scan Software Version:	3.00(182)
Parameter List :	
Instrument:	Cary 50
Instrument Version:	3.00
Start (nm):	800.0
Stop (nm):	200.0
X Mode:	Nanometers
Y Mode:	Abs
UV-Vis Scan Rate (nm/min):	600.00
UV-Vis Data Interval (nm):	1.00
UV-Vis Ave. Time (sec):	0.1000
Beam Mode:	Dual Beam
Baseline Correction:	On
Baseline Type:	Baseline correction
Baseline File Name:	
Baseline Std Ref File Name:	
Cycle Mode:	Off
Comments:	
Method Log:	
Method Name:	Default
Date/Time stamp:	7/21/2005 5:09:23 PM
Method Modifications:	
Cell Changer 6x6 Changed:	7/21/2005 5:09:27 PM / Old:1 / New:0
UVVIS SAT Changed:	7/21/2005 5:10:05 PM / Old:0.0125 / New:0.1000
NIR SAT Changed:	7/21/2005 5:10:05 PM / Old:0.0125 / New:0.1000
Common SAT Changed:	7/21/2005 5:10:05 PM / Old:0.0125 / New:0.1000
Baseline Correction Changed:	7/21/2005 5:10:10 PM / Old:0 / New:1
Temp Controller Changed:	7/21/2005 5:10:10 PM / Old:0 / New:2
Sipper Type Changed:	7/21/2005 5:10:10 PM / Old:Internal RSA / New:External sipper
End Method Modifications	
<Current Wavelength>	200