

## UV-Vis Spectrophotometer 8453 - Agilent

### INTRODUCTION

The Lumetics LINK™ software platform scans network locations for new measurement data files, copies data directly to a centralized database, and provides a powerful user interface for rapid multi-measurement multi-technique data aggregation, visualization, analysis, and reporting. LINK employs a client/server-based architecture where the LINK server hardware is provided by the end user and resides on the end user's network. The LINK client is a portable web-based application that may be placed on any computer with network connectivity to the LINK server. For successful import, the LINK webserver requires read access to the folders where user data resides.

Agilent 8453 is a highly productive UV-Visible Spectroscopy System with diode-array technology. Spectral scanning for complete spectral information useful for: - proof of identity and pureness of the sample - additional information for "out of specification test result" investigation in a regulated environment - re-evaluation with different method - multi-wavelength applications such as user-defined equations - multicomponent analysis of mixtures.

### DETAILS

LINK requires the TXT results data file. The CSV spectrum data file is optional. Required data files must be exported from the 8453 UV-Vis software using the Print to File option for the TXT file, and the Export Selected Spectrum option for the CSV file.

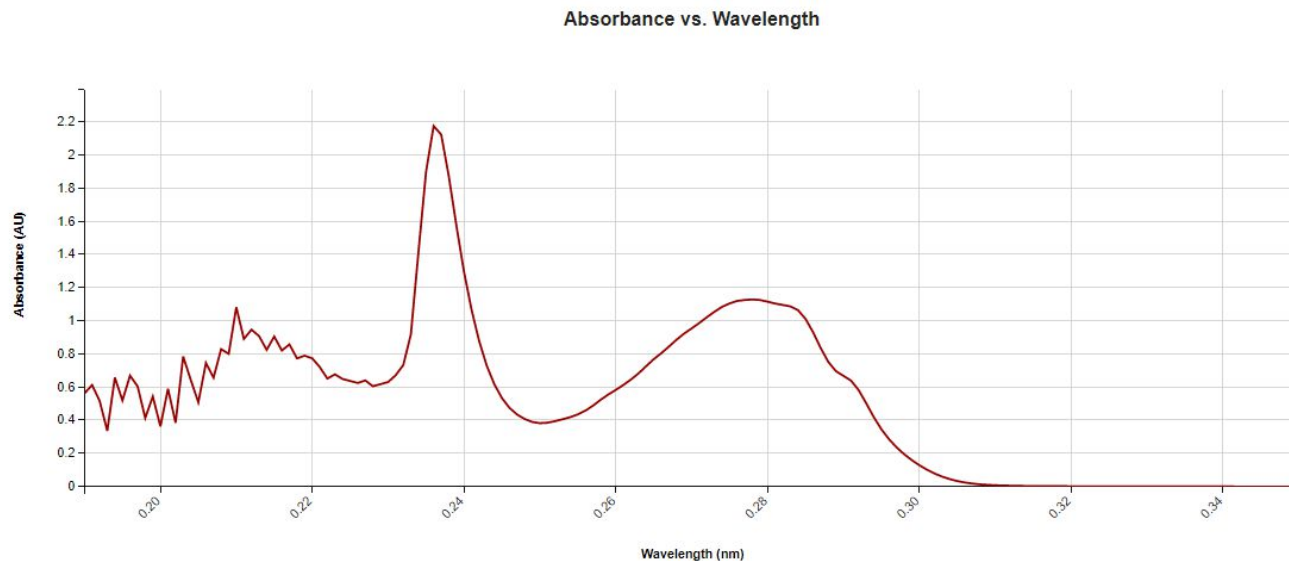
The following raw curve data may be imported, in addition to all available instrument/analysis settings and parameters calculated by the instrument software:

- Absorbance vs. Wavelength

### EXAMPLES

Included below is a sample dashboard from Agilent 8453 UV-Vis measurement files:

1. Line Chart plotting raw data curves for Absorbance vs. Wavelength



## 2. Tabular Summary examples

### Measurement Summary Table – Measurement Results

LINK Record ID #	Absorbance (AU) (Wavelength (nm) <=2) - AVG	Dilut. Factor - AVG	Concentration - AVG	Abs<250nm> - AVG	Abs<280nm> - AVG	Abs<310nm> - AVG
1	78.07	200	156.07	0.38	1.11	0.01
2	0.00	100	163.75	0.83	2.35	0.03
3	0.00	100	148.09	0.74	2.13	0.03
4	0.00	100	166.16	0.85	2.39	0.03
5	0.00	100	171.24	0.89	2.47	0.03
6	0.00	100	139.14	0.69	2.00	0.02
7	0.00	100	129.60	0.65	1.86	0.02
8	0.00	100	155.05	0.78	2.23	0.02
9	0.00	100	151.31	0.76	2.17	0.02
10	0.00	100	159.29	0.80	2.29	0.02

### Measurement Summary Table – Instrument Settings

LINK Record ID #	File Name	Overlaid Spectra	Method file	Measurement Index - AVG	Last update	Information	Equation
1	REPORT.TXT	{E:\MEDIMMUNE\AGILENT...	NIP109.M	1	Date 18/02/2013 Time 09:...	Default Method	Concentration = (WL1-WL...
2	REPORT.TXT	{E:\MEDIMMUNE\AGILENT...	NIP109.M	2	Date 18/02/2013 Time 09:...	Default Method	Concentration = (WL1-WL...
3	REPORT.TXT	{E:\MEDIMMUNE\AGILENT...	NIP109.M	3	Date 18/02/2013 Time 09:...	Default Method	Concentration = (WL1-WL...
4	REPORT.TXT	{E:\MEDIMMUNE\AGILENT...	NIP109.M	4	Date 18/02/2013 Time 09:...	Default Method	Concentration = (WL1-WL...
5	REPORT.TXT	{E:\MEDIMMUNE\AGILENT...	NIP109.M	5	Date 18/02/2013 Time 09:...	Default Method	Concentration = (WL1-WL...
6	REPORT.TXT	{E:\MEDIMMUNE\AGILENT...	NIP109.M	6	Date 18/02/2013 Time 09:...	Default Method	Concentration = (WL1-WL...
7	REPORT.TXT	{E:\MEDIMMUNE\AGILENT...	NIP109.M	7	Date 18/02/2013 Time 09:...	Default Method	Concentration = (WL1-WL...
8	REPORT.TXT	{E:\MEDIMMUNE\AGILENT...	NIP109.M	8	Date 18/02/2013 Time 09:...	Default Method	Concentration = (WL1-WL...
9	REPORT.TXT	{E:\MEDIMMUNE\AGILENT...	NIP109.M	9	Date 18/02/2013 Time 09:...	Default Method	Concentration = (WL1-WL...
10	REPORT.TXT	{E:\MEDIMMUNE\AGILENT...	NIP109.M	10	Date 18/02/2013 Time 09:...	Default Method	Concentration = (WL1-WL...

## DASHBOARD DOWNLOAD

Included below is a link to downloadable dashboards for Agilent 8453 UV-Vis measurement files:

<http://lumetics.com/dashboards/Agilent/Agilent.zip>

## CONTACT LUMETICS

For direct assistance, please contact Lumetics LINK™ Support:

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