

SoloVPE – C Technologies

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.

SoloVPE System unlocked the power of Slope Spectroscopy with its unique patented variable pathlength technology. The SoloVPE Solution expanded the mature UV-Vis technique from a 2-dimensional to a 3-dimensional science.

DETAILS

LINK requires the RTF data file to import SoloVPE results. Required data files may need to be exported from the SoloVPE software. The SoloVPE RTF data file example is as follows:

SoloVPE QSlope Report
 Powered By The SoloVPE & Slope Spectroscopy (R)
 Report Date/Time Stamp: 03-Oct-2019 12:07:18 PM Eastern Daylight Time

| | | |
|------------------------|----------------------|------------------------------|
| INSTRUMENT DATA | SECURITY DATA | METHOD DATA |
| System ID: LINK1 | GxP Enabled: True | Method Function: Quick Slope |
| SoloVPE SN: CTS1801187 | User ID: Lumetics 2 | Quick Method ID: None |
| Cary SN: MY18500029 | Version: 3.1.289.0 | Method File: None |

Sample Name: Lumetics1

Quick Slope Method Details:

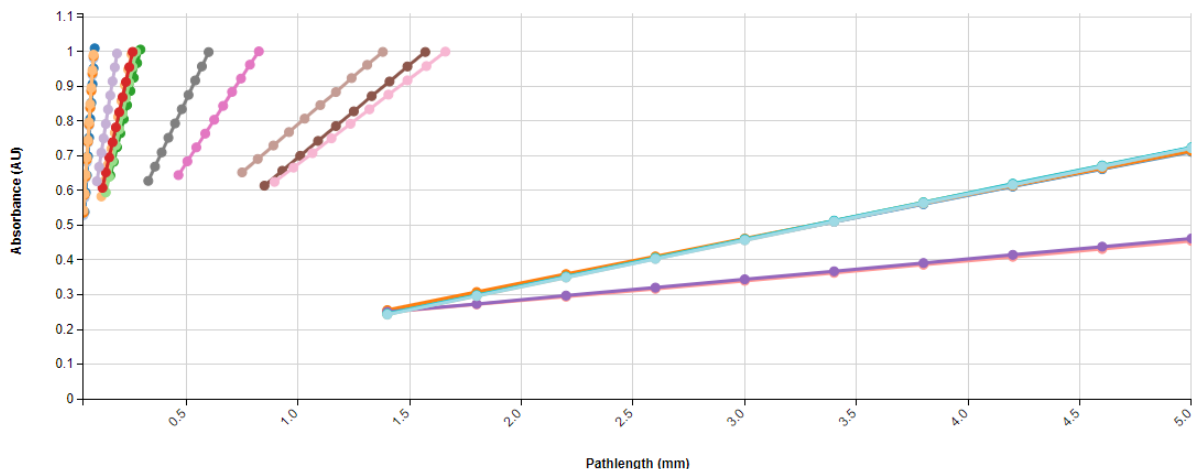
| | | |
|-------------------------------|--------------------------|----------------------------|
| Slope Mode: Quick | Wavelength (nm): 280.000 | Background Correct: Off |
| Quick Method: None | Abs Threshold: 1.00000 | Scatter Correct: Dual WL |
| Vessel ID: PV-OC0009-1 | # Data Points: 10 | Scatter WL 1 (nm): 320.000 |
| Optimization Method: Standard | Avg. Time (sec): 0.2500 | Scatter WL 2 (nm): 350.000 |
| Rep Mode: Recollect | Rep Count: 2 | Rep Delay (sec): 0.00 |

EXAMPLES

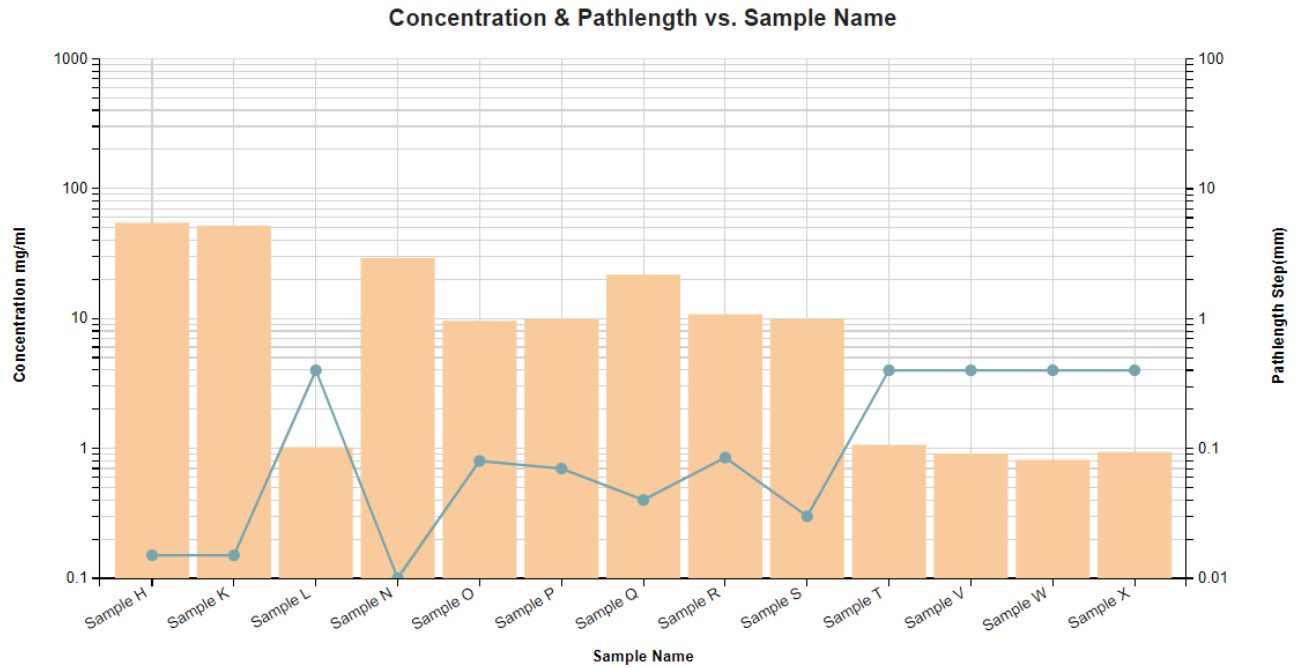
Included below are example dashboards from SoloVPE measurement files:

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

Absorbance vs. Pathlength



2. Column Chart exemplifying Particle concentration and pathlength vs. sample name



3. Tabular Summary examples

Measurement Summary Table – Measurement Results

| Sample Name | Analysis Date | Conc. (mg/ml) - AVG | Delta Mean (mg/ml) - AVG | Delta% - AVG | Slope(Abs/mm) - AVG | R-Sqr - AVG | Th PL (mm) - AVG |
|-------------|---------------------|---------------------|--------------------------|--------------|---------------------|-------------|------------------|
| Sample A | 2019-10-28 07:55:41 | 90.37 | 2.36 | 2.68 | 10.39 | 1.00 | 0.09 |
| Sample AB | 2019-10-03 12:08:41 | 2.22 | 0.00 | 0.19 | 0.13 | 1.00 | 7.16 |
| Sample AC | 2019-10-03 12:12:24 | 2.22 | 0.00 | -0.15 | 0.13 | 1.00 | 7.13 |
| Sample AD | 2019-10-03 12:13:45 | 2.22 | 0.00 | 0.15 | 0.13 | 1.00 | 7.10 |
| Sample AE | 2019-10-03 12:17:02 | 2.22 | 0.00 | 0.03 | 0.13 | 1.00 | 7.12 |
| Sample AF | 2019-10-03 12:19:00 | 2.22 | 0.00 | -0.03 | 0.13 | 1.00 | 7.15 |
| Sample B | 2019-10-28 07:56:46 | 87.59 | -0.42 | -0.47 | 10.07 | 1.00 | 0.09 |
| Sample C | 2019-10-28 07:57:14 | 86.80 | -1.20 | -1.37 | 9.98 | 1.00 | 0.09 |
| Sample D | 2019-10-28 07:57:43 | 87.26 | -0.75 | -0.85 | 10.03 | 1.00 | 0.09 |

Measurement Summary Table – Instrument Settings

| Sample Name | SoloVPE SN | Version | GxP Enabled | User ID | Quick Method ID | Method Function | Slope(Abs/m m) - AVG | Slope Mode | Vessel ID | Optimization Method | Rep Mode | Wavelength (nm) - AVG | Abs Threshold - AVG | # Data Points - AVG | Rep Count - AVG | Background Correct | Scatter WL 1 (nm) - AVG | Scatter WL 2 (nm) - AVG |
|-------------|------------|-----------|-------------|---------------|-----------------|-----------------|----------------------|------------|--------------|---------------------|-----------|-----------------------|---------------------|---------------------|-----------------|--------------------|-------------------------|-------------------------|
| Sample A | CTS1701190 | 3.1.289.0 | False | Non-GxP Sy... | None | Quick Slope | 10.39 | Quick | PV-OC0009... | Standard | Repeat | 279 | 1 | 10 | 4 | Off | 320 | |
| Sample AB | CTS1801187 | 3.1.289.0 | True | Yarger, Tyler | None | Quick Slope | 0.13 | Quick | PV-OC0009... | Standard | Recollect | 280 | 1 | 10 | 2 | Off | 320 | 350 |
| Sample AC | CTS1801187 | 3.1.289.0 | True | Yarger, Tyler | None | Quick Slope | 0.13 | Quick | SV1-Small | Standard | Repeat | 280 | 1 | 10 | 2 | Off | 320 | 350 |
| Sample AD | CTS1801187 | 3.1.289.0 | True | Yarger, Tyler | None | Quick Slope | 0.13 | Quick | SV1-Small | Standard | Repeat | 280 | 1 | 10 | 2 | Off | 320 | 350 |
| Sample AE | CTS1801187 | 3.1.289.0 | True | Yarger, Tyler | None | Quick Slope | 0.13 | Quick | SV1-Small | Standard | Replicate | 280 | 1 | 10 | 2 | Off | 320 | 350 |
| Sample AF | CTS1801187 | 3.1.289.0 | True | Yarger, Tyler | None | Quick Slope | 0.13 | Quick | SV1-Small | Standard | Replicate | 280 | 1 | 10 | 2 | Off | 320 | 350 |
| Sample B | CTS1701190 | 3.1.289.0 | False | Non-GxP Sy... | None | Quick Slope | 10.07 | Quick | PV-OC0009... | Standard | Repeat | 279 | 1 | 10 | 4 | Off | 320 | |
| Sample C | CTS1701190 | 3.1.289.0 | False | Non-GxP Sy... | None | Quick Slope | 9.98 | Quick | PV-OC0009... | Standard | Repeat | 279 | 1 | 10 | 4 | Off | 320 | |
| Sample D | CTS1701190 | 3.1.289.0 | False | Non-GxP Sy... | None | Quick Slope | 10.03 | Quick | PV-OC0009... | Standard | Repeat | 279 | 1 | 10 | 4 | Off | 320 | |



SOLOVPE DASHBOARDS

LINK contains an extensive built-in dashboard library from LINK version 2.4.0.210401 and later. This function contains specific pre-created dashboards for all instruments and application groups.

CONTACT LUMETICS

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