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Varioskan LUX – Thermo Fisher Scientific

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.

Varioskan LUX is a multimode microplate reader equipped with a flexible range of measurement technologies including absorbance, fluorescence intensity, luminescence, alpha screen, and time-resolved fluorescence.

DETAILS

LINK requires the XLSX data file to import Varioskan LUX results. Required data files must be exported from the Varioskan LUX software.

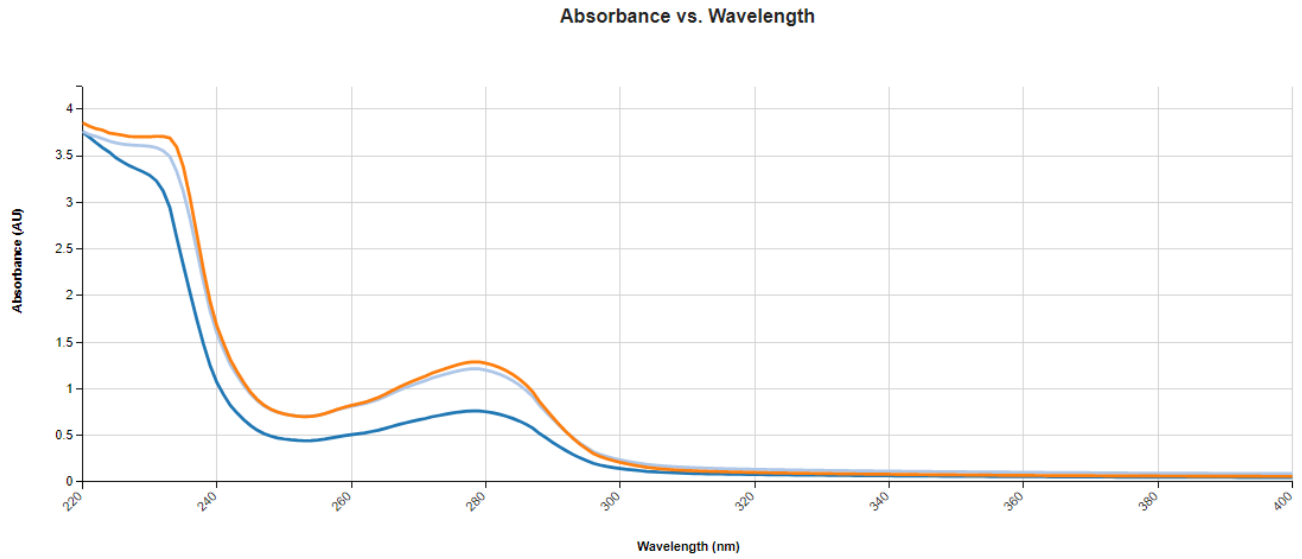The Varioskan XLSX data file example is as follows:

	A	B	C	D	E	F	G	H	I	J	K
1	Results summary										
2											
3	General - 100µL										
4											
5	Plate	Well	Group	Sample	Absorbance 1 (280nm)	Blank Subtraction 1 (280nm)	Average, SD, CV% 1 (Avg 280nm)	Average, SD, CV% 1 (SD 280nm)	Average, SD, CV% 1 (CV% 280nm)		
6	Plate 1	A10	100µL	Sample A	0.04	-0.001803	0	0.001595	Non Numérique		
7	Plate 1	B10	100µL	Sample B	2.923	2.882	2.885	0.008651	0.2999		
8	Plate 1	C10	100µL	Sample C	2.954	2.913	2.916	0.00425	0.1457		
9	Plate 1	A11	100µL	Blank1	0.043	0.001227					
10	Plate 1	B11	100µL	Sample D	2.936	2.895					
11	Plate 1	C11	100µL	Sample E	2.962	2.921					
12	Plate 1	A12	100µL	Blank1	0.042	0.0005751					
13	Plate 1	B12	100µL	Sample F	2.92	2.878					
14	Plate 1	C12	100µL	Sample G	2.957	2.915					
15	Plate 1	G12	100µL	Sample H	2.99	2.949	2.949	Non Numérique	Non Numérique		
16											
17	General - 200µL										
18											
19	Plate	Well	Group	Sample	Absorbance 1 (280nm)	Blank Subtraction 1 (280nm)	Average, SD, CV% 1 (Avg 280nm)	Average, SD, CV% 1 (SD 280nm)	Average, SD, CV% 1 (CV% 280nm)		
20	Plate 1	D10	200µL	Sample A	0.042	-0.0001999	-0.00000000000000004626	0.0002211	-4.78E+15		
21	Plate 1	E10	200µL	Sample B	3.009	2.967	2.973	0.01839	0.6184		
22	Plate 1	F10	200µL	Sample C	3.053	3.011	3.031	0.01802	0.5943		
23	Plate 1	D11	200µL	Blank2	0.042	0.0002375					
24	Plate 1	E11	200µL	Sample D	3.036	2.994					
25	Plate 1	F11	200µL	Sample E	3.088	3.046					
26	Plate 1	D12	200µL	Blank2	0.042	-0.00003753					
27	Plate 1	E12	200µL	Sample F	3.001	2.959					
28	Plate 1	F12	200µL	Sample G	3.078	3.037					

Absorbance 1_01 | Blank Subtraction 1_02 | Average, SD, CV% 1_03 | **Result summary** | General information | Session information | Instrument information | Protocol parameters | Run log | Layout definitions
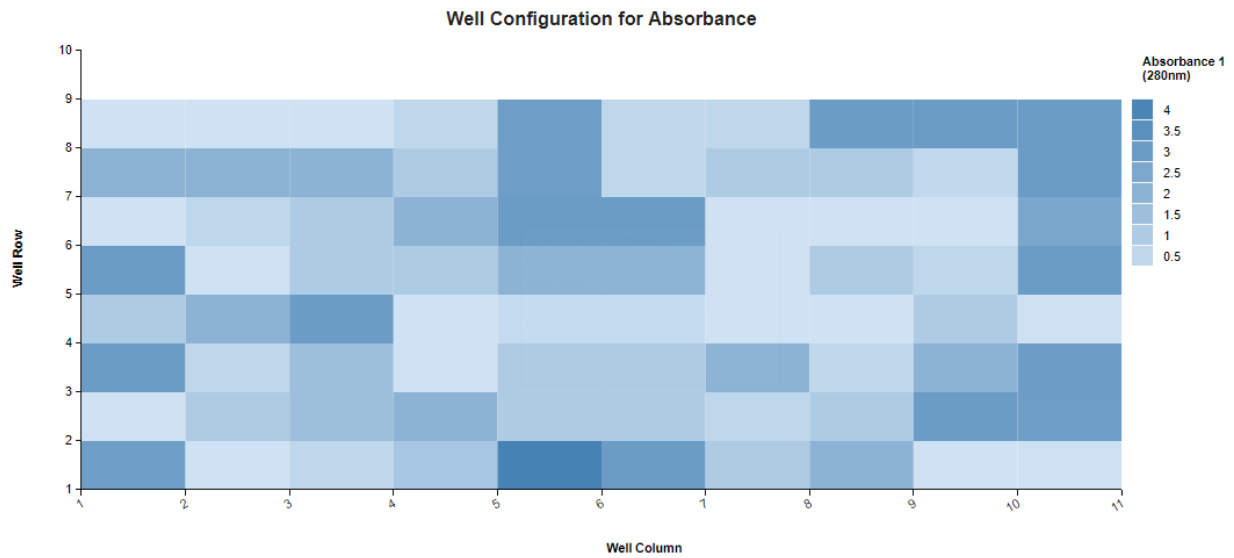
EXAMPLES

Included below are sample dashboards from Varioskan measurement files:

1. Line Chart plotting raw data curves for Absorbance vs. Wavelength and split by sample name

2. 2D Histogram plotting the well configuration for absorbance

3. Tabular Summary examples

Measurement Summary Table – Measurement Results

LINK Record ID #	Sample Name	Spectral Reduction 1 (280nm) - AVG	Absorbance 1 (280nm) - AVG	UV Absorbance (Wavelength (nm) >=.001) - AVG	Absorbance (Blank Subtracted) (Wavelength (nm) >=.001) - AVG	Absorbance (AU) (Wavelength (nm) >=.001) - AVG
1	LINK1	0.27	2.92	54.71	0.00	54.71
2	LINK1	0.78	0.03	104.56	0.00	104.56
3	LINK1	0.99	0.50	118.06	0.00	118.06
4	LINK1	1.01	1.20	119.19	0.00	119.19
5	LINK2	0.66	0.05	96.71	0.00	96.71
6	LINK2	1.13	1.00	126.15	0.00	126.15

Measurement Summary Table – Instrument Settings

LINK Record ID #	InstrumentName	Analysis Date	Sample Name	Well Row - AVG	Well Column - AVG	Well	Informations sur la session - Version du logiciel	Informations sur l'instrument - Version ESW	Échantillon
1	Varioskan LUX	2017-04-05 17:40:57	LINK1	1	1	A01	SkanIt Software 4.1 f...	1.00.30	BSA35
2	Varioskan LUX	2017-04-05 17:40:57	LINK1	1	2	A02	SkanIt Software 4.1 f...	1.00.30	BSA35
3	Varioskan LUX	2017-04-05 17:40:57	LINK1	8	6	A03	SkanIt Software 4.1 f...	1.00.30	BSA35
4	Varioskan LUX	2017-04-05 17:40:57	LINK1	1	4	A04	SkanIt Software 4.1 f...	1.00.30	BSA35
5	Varioskan LUX	2017-04-05 17:40:57	LINK2	2	1	B01	SkanIt Software 4.1 f...	1.00.30	BSA17.5_10001
6	Varioskan LUX	2017-04-05 17:40:57	LINK2	2	2	B02	SkanIt Software 4.1 f...	1.00.30	BSA17.5_10001

VARIOSKAN 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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