

The background features a dark blue gradient with faint, light-colored technical diagrams. On the left side, there is a vertical scale with numerical markings from 140 to 260 in increments of 10. Several circular diagrams with arrows and dashed lines are scattered across the background, suggesting a scientific or engineering context.

ESSENTIAL INSTRUMENTATION FOR THE WINE LABORATORY – Astoria2

BROUGHT TO YOU BY ASTORIA-PACIFIC

SCOPE OF PRESENTATION

- TYPES OF ANALYZERS FOR WINE ANALYSIS
- Astoria2 Analyzer – A WORKHORSE OF THE INDUSTRY
- FOR WINE ANALYSIS
- FASPac2.4 SOFTWARE
- COMPLIANCE WITH TTB AND AOAC METHODS
- “EXPORTABLE” DATA, WHAT DO I DO WHEN THE RUN IS DONE?
- QUESTIONS?

TYPES OF ANALYZERS

SEGMENTED FLOW ANALYZERS

- “MACRO” SFA
- “MICRO” SFA

FLOW INJECTION ANALYZERS

DISCRETE ANALYZERS

- FLOW THROUGH CUVETTE
- DIRECT READ CUVETTE

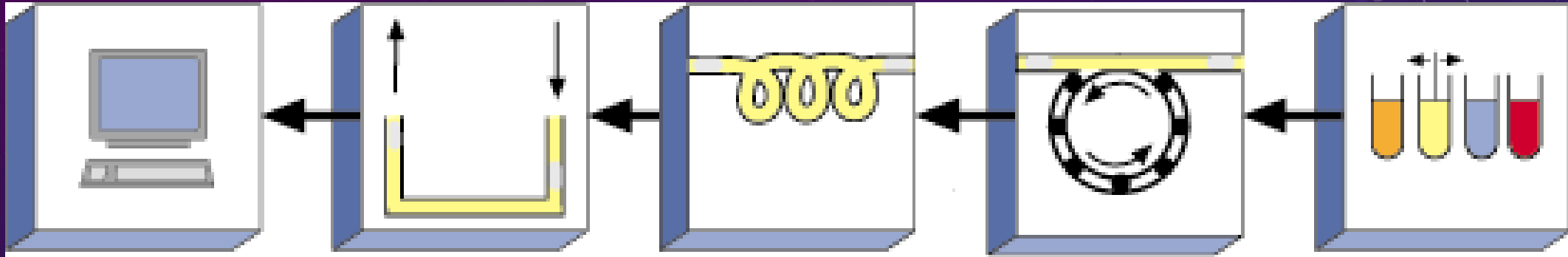
ASTORIA2 ANALYZER – A WORKHORSE OF THE INDUSTRY



A commercial lab or large winery may need to process 80 – 200+ sulfite samples within a day*. The Astoria2 is primarily for wine labs with higher sample volumes and/or larger wineries with production exceeding 300,000 cases/year. A typical system is configured to monitor Free and/or Total Sulfite samples simultaneously. It produces data consistent with offsite reference labs.

*NOTE: For additional applications, consider the rAPID-Xt.

Astoria2 Analyzer – A Workhorse of the industry. How does it work?



FASPac2.4, Data Acquisition Software, collects and processes data from the detector and controls the automation of the system

A Photometric Detector uses a flow-through cell to measure the absorbance of the reacted samples

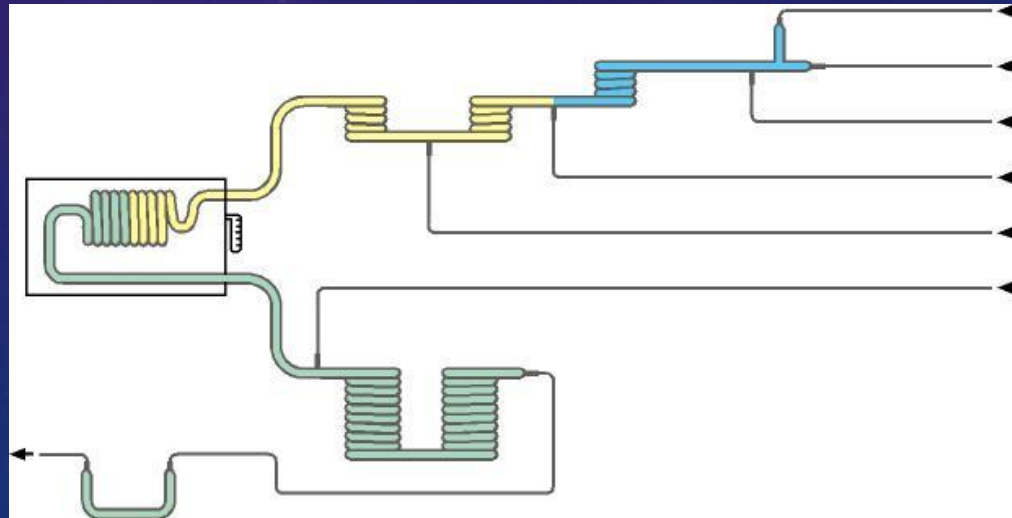
An Application Cartridge mixes samples and reagents together for analysis

A Peristaltic Pump continuously moves reagents and samples through system

An Autosampler introduces samples to the system. Astoria-Pacific offers two different sampler sizes

FOR WINE ANALYSIS

APPLICATION	APPLICATION RANGE	ANALYSIS RATE
Free Sulfite	5 – 80 mg/L	60 Samples/Hour
Total Sulfite	10 – 200 mg/L	60 Samples/Hour
Volatile Acidity*	0.01 – 18 g/L	50 Samples/Hour
*NOTE: Only for labs wanting to match CASH STILL		



FASPac2.4 SOFTWARE

Data Acquisition and Control Software program.

- Microsoft Windows® based software.
- Bi-directional communication with LIMS.
- Real time display of peaks.
- Built-in QC with printable reports and charts.
- Supports EPA CLP run protocol.
- And much more ...

The screenshot displays the FASPac2.4 software interface. At the top, the window title is "FASPac II-2.12 - brady - NO3_BLM_032808a". The main window is divided into several sections:

- Run Table:** A table listing 21 samples with columns for Identifier, Repeats, Type, Cup Type, Comment, Prerun, and Total. The first row is highlighted in cyan.
- Run Table (Right):** A smaller table showing the run configuration for "NO3_BLM_032808a", including the configuration "Nitrite 0.05 - 50" and the run date "3/28/2008". It also displays a table of Nitrate+Nitrite results with columns for Position, Identifier, Type, Cor Ht, and mg/L.
- Calibration for Nitrate+Nitrite:** A graph showing a linear relationship between Concentration (X-axis, 0.0000 to 30.0000) and Peak Height (Y-axis, 0.000 to 3.000). The equation is $y = -0.0002758 + 0.06235x$ and the correlation is 0.99999.
- Chromatogram:** A plot showing the detector response over time (14:00 to 27:00). A prominent peak is visible at approximately 20:00. The x-axis is labeled "Time" and the y-axis is labeled "Peak Height".

The bottom of the screenshot shows the Windows taskbar with several open applications: "Inbox - Microsoft...", "iTunes", "Automation Pres...", "1:FASPac II", "HTML Help", "Microsoft Excel - ...", and "Qchart".

1:FASpac II-2.12 - brady: NO3_BLM_032808a - [Sample Table]

File Edit Run System Setup Window Help

Nitrite 0.05 - 50 Edit...

Number of Samples: 21

	Position	Identifier	Repeats	Type	Cup Type	Comment	Dilution Factors		Solids Prep	
							Prerun	Total	Volume	Weight
1	1:1	SYNC	1	SYNC	4 ml		N/A	1	1.000	1.000
2	1:2	CO	1	Carry over	4 ml		N/A	1	1.000	1.000
3	1:3	w	1	Blank	4 ml		N/A	1	1.000	1.000
4	1:4	W	1	Wash	4 ml		N/A	1	1.000	1.000
5	1:5	C1	1	Calibrant	4 ml	0	N/A	1	1.000	1.000
6	1:6	C2	1	Calibrant	4 ml	.05	N/A	1	1.000	1.000
7	1:7	C3	1	Calibrant	4 ml	.1	N/A	1	1.000	1.000
8	1:8	C4	1	Calibrant	4 ml	.5	N/A	1	1.000	1.000
9	1:9	C5	1	Calibrant	4 ml	1	N/A	1	1.000	1.000
10	1:10	C6	1	Calibrant	4 ml	5	N/A	1	1.000	1.000
11	1:11	C7	1	Calibrant	4 ml	10	N/A	1	1.000	1.000
12	1:12	C8	1	Calibrant	4 ml	50	N/A	1	1.000	1.000
13	1:14	w	1	Blank	4 ml		N/A	1	1.000	1.000
14	1:15	W	1	Wash	4 ml		N/A	1	1.000	1.000
15	1:16	Ten	5	Unknown	4 ml	10.0	N/A	1	1.000	1.000
16	1:17	Five	5	Unknown	4 ml	5.0	N/A	1	1.000	1.000
17	1:19	0.05	5	Unknown	4 ml	0.05	N/A	1	1.000	1.000
18	1:20	0.02	5	Unknown	4 ml	0.02	N/A	1	1.000	1.000
19	1:21	One	2	Unknown	4 ml	1.0	N/A	1	1.000	1.000
20	1:22	Point Five	2	Unknown	4 ml	0.5	N/A	1	1.000	1.000
21	1:23	Fifty	2	Unknown	4 ml	50.0	N/A	1	1.000	1.000
22			1	Unknown	0		N/A	1	1.000	1.000
23			1	Unknown	0		N/A	1	1.000	1.000

FASpac2.4 SOFTWARE

SAMPLE TABLE

Easily add sample identifiers, comments, dilution factors, etc.

Information can be imported from LIMS, or can even be “copy and pasted” from spreadsheets (i.E. Excel), from word, etc.

RUN TABLE:

ALLOWS THE OPERATOR TO SEE HOW THE CALIBRANTS, SAMPLES, CHECK CALIBRANTS, ETC. WILL BE RUN ON THE SYSTEM. IF A RUN IS IN PROGRESS, THE CURRENT POSITION OF THE SAMPLER IS SHOWN (HIGHLIGHTED). ALSO, DATA COLLECTS AS THE RUN PROGRESSES.

1:FASpac II-2.12 - brady: NO3_BLM_032808a

File Edit Run System Setup Window Help

Nitrite 0.05 - 50

Run Name: NO3_BLM_032808a
Configuration: Nitrite 0.05 - 50
Run date: 3/28/2008

Update	Position	Identifier	Type	Cor Ht	Nitrate+Nitrite mg/L
	1	1:1	SYNC	2.257	49.5573
	2	1:2	CO	0.004	0.16
	3	1:3	w	0.001	0.0159
	4	1:4	W	0.000	0.0053
	5	1:5	C1	0.000	0.0010
	6	1:6	C2	0.002	0.0503
	7	1:7	C3	0.005	0.0984
	8	1:8	C4	0.026	0.5003
	9	1:9	C5	0.054	1.0027
	10	1:10	C6	0.278	5.1396
	11	1:11	C7	0.531	9.9702
	12	1:12	C8	2.274	50.0449
	13	1:14	w	0.000	0.0064
	14	1:15	W	0.000	0.0053
	15	1:16	Ten	0.505	9.4705
	16	1:16	Ten	0.504	9.4475
	17	1:16	Ten	0.510	9.5789
	18	1:16	Ten	0.509	9.5496
	19	1:16	Ten	0.510	9.5764
	20	0	AutoWash	0.000	0.0022
	21	0	AutoWash	0.000	0.0053

Run Table Properties

Contents Display

Sample Info

- Cup Position
- Sample Type
- Comment
- Date
- Time
- Prerun Dilution
- Total Dilution
- Prep Volume
- Prep Weight

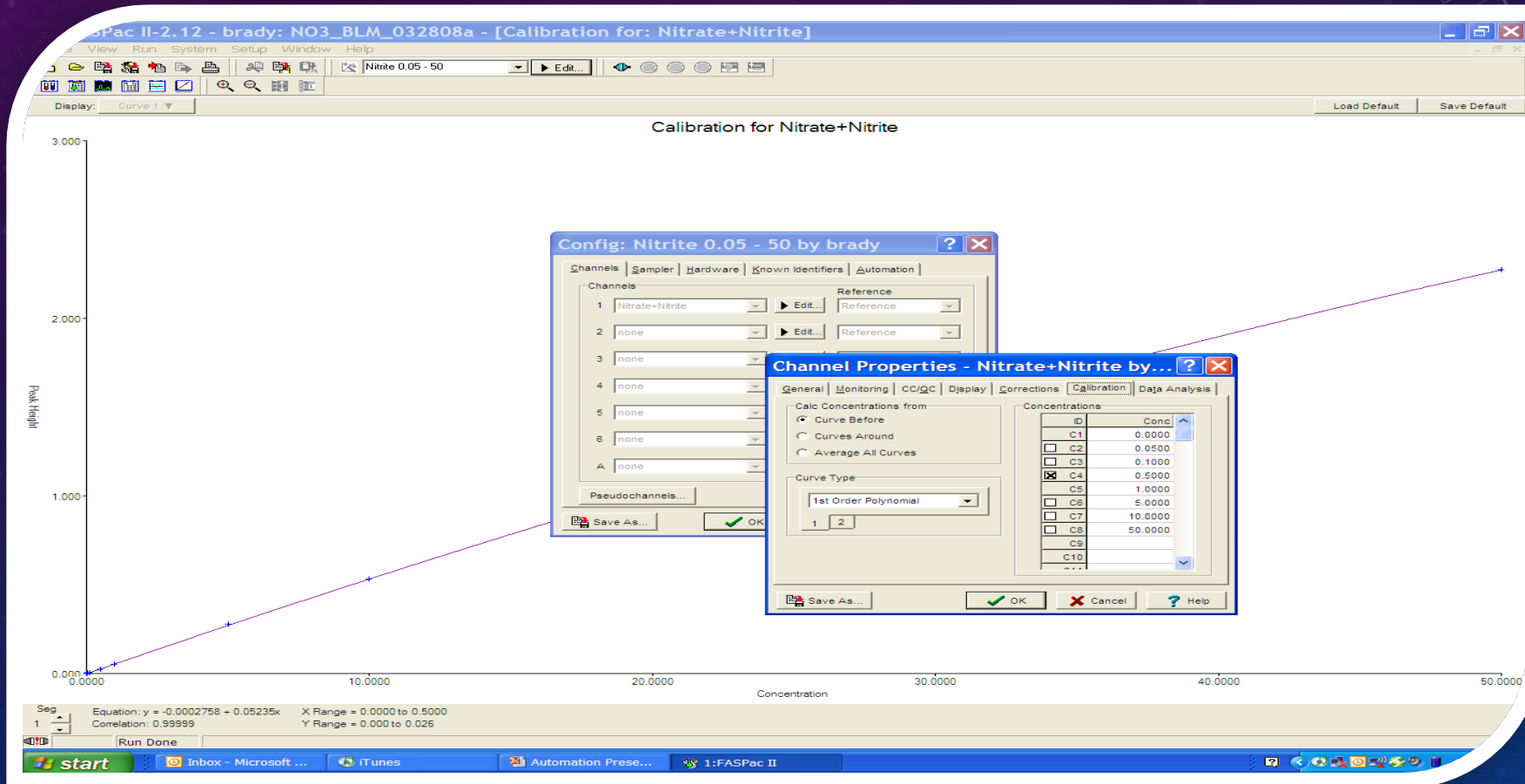
Channel Info

- Corrected peak height
- Raw peak height
- Status Flags
- Select flags...

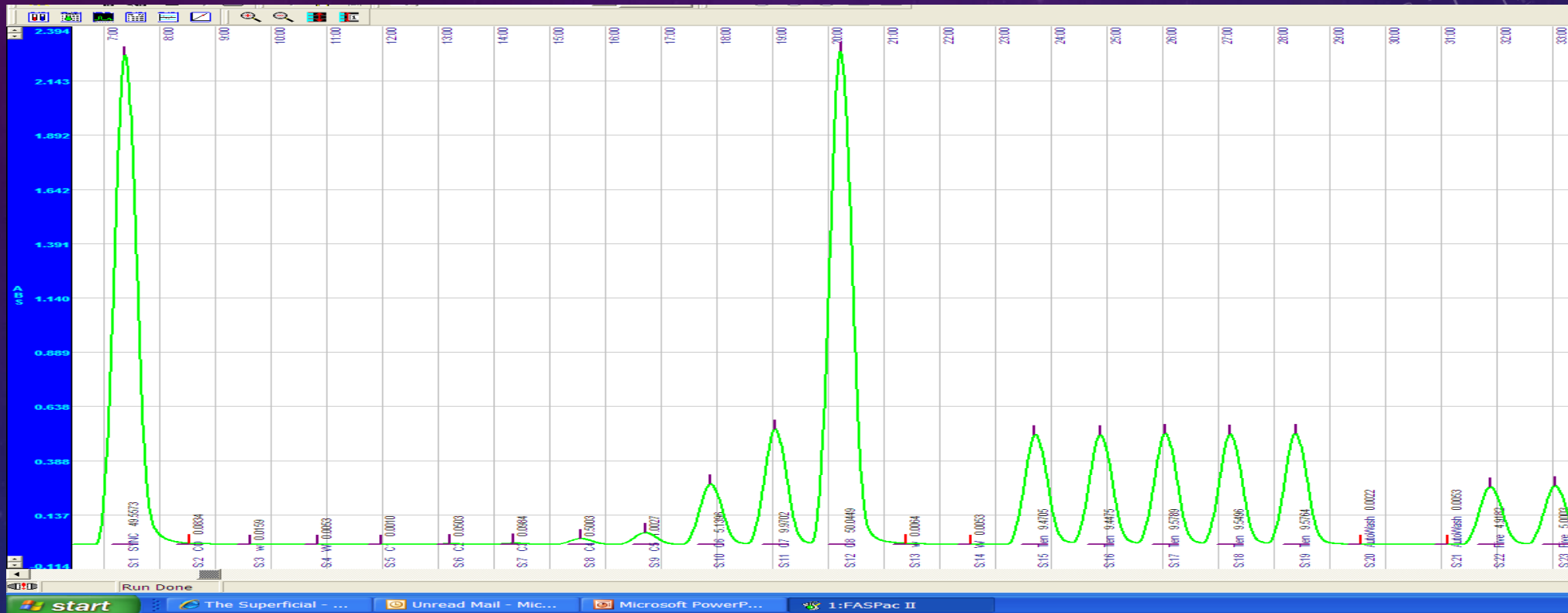
OK Cancel Help

CALIBRATION CURVE W/"SEGMENTED CURVES" FEATURE:

ALLOWS THE OPERATOR TO SPECIFY DIFFERENT CALCULATION ROUTINES TO DIFFERENT PARTS OF A WIDE-RANGE CURVE. FOR EXAMPLE, IN THE 0.05 – 50 MG/L RANGE FOR NITRITE ANALYSIS, A 1ST ORDER CURVE WAS USED FOR 0 – 0.5 MG/L AND A 2ND ORDER CURVE WAS USED FOR 1 – 50 MG/L.



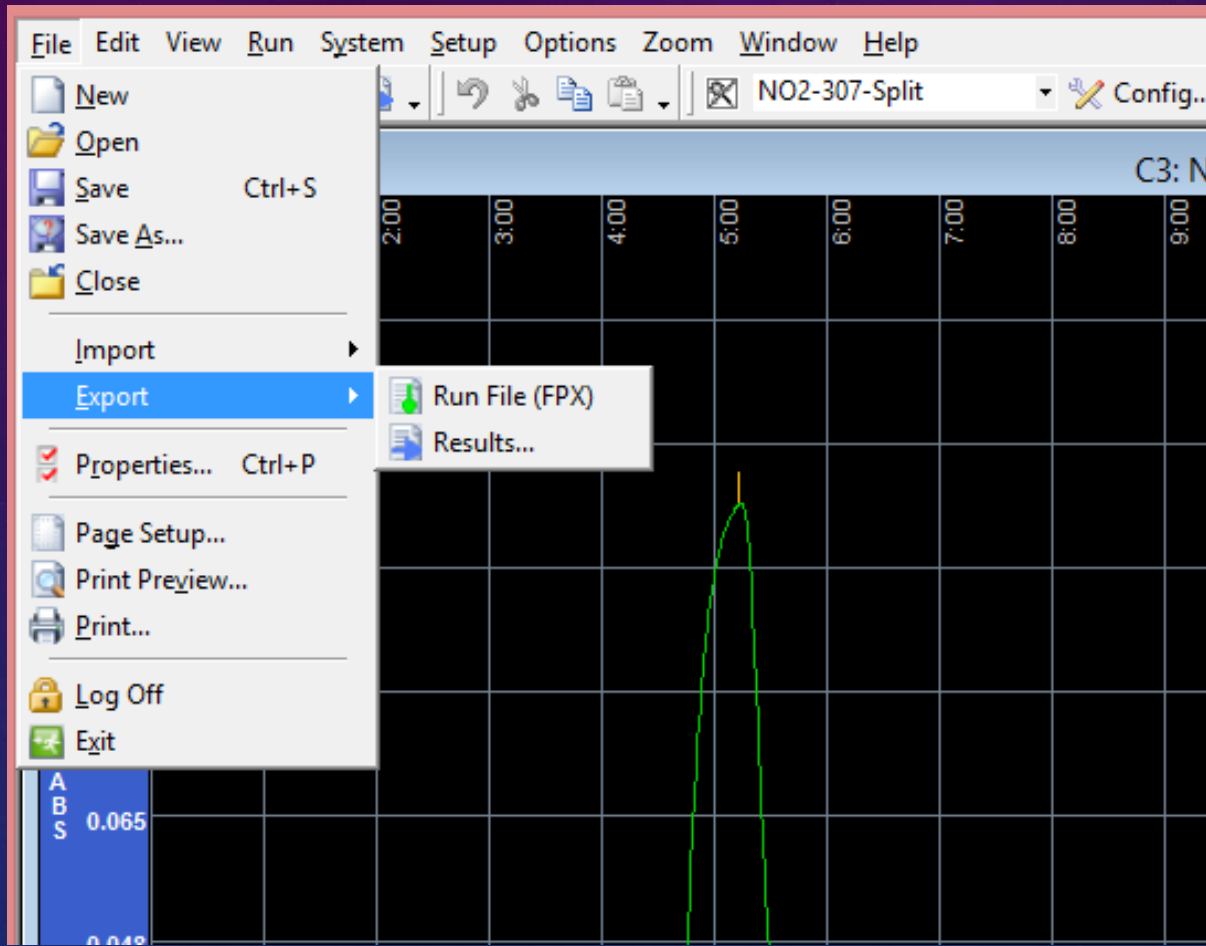
REAL DATA: SCREEN CAPTURE OF ANALYTICAL PEAKS



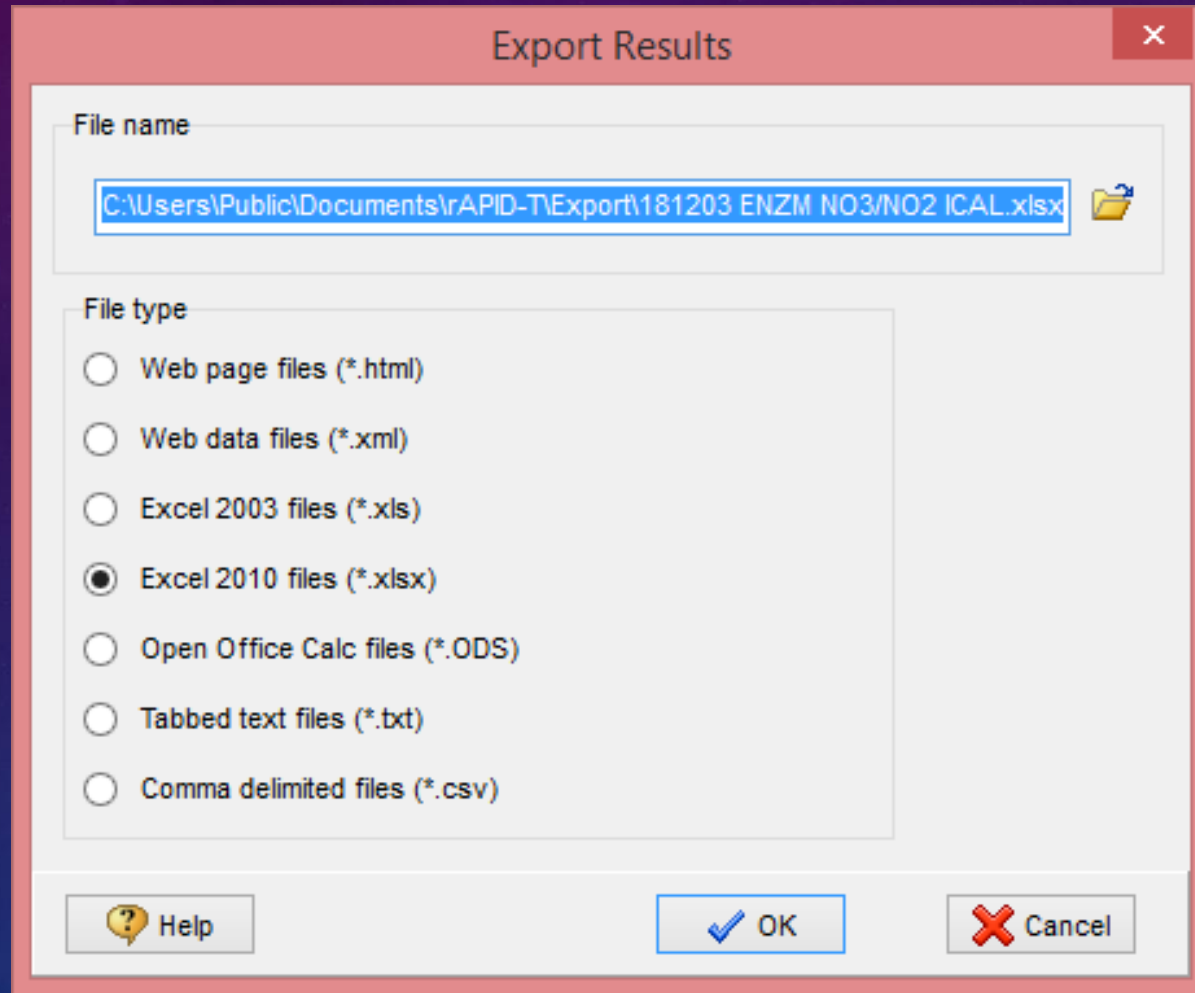
COMPLIANCE WITH TTB AND AOAC METHODS

- Provides data on par with your client's reference lab of choice.
- Follows AOAC and preferred TTB methods

“EXPORTABLE” DATA, WHAT DO I DO WHEN THE RUN IS DONE?



“EXPORTABLE” DATA, WHAT DO I DO WHEN THE RUN IS DONE?



The background is a dark blue gradient with a starry space pattern. On the right side, there are several technical diagrams, including a large circular gauge with a scale from 80 to 210 and a smaller circular diagram below it. On the left side, there are faint circular diagrams, one of which has a dashed arrow pointing left.

CONTACT US:

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QUESTIONS???

- What questions might you have?
- Is Astoria-Pacific really based in Clackamas? What is a c-l-a-c-k-a-m-a-s?
- What is a woodchuck chuck?
- Why does Brady say he can juggle? He's terrible at it...