

Origin is on all Physics 403 computers.
What it can do:

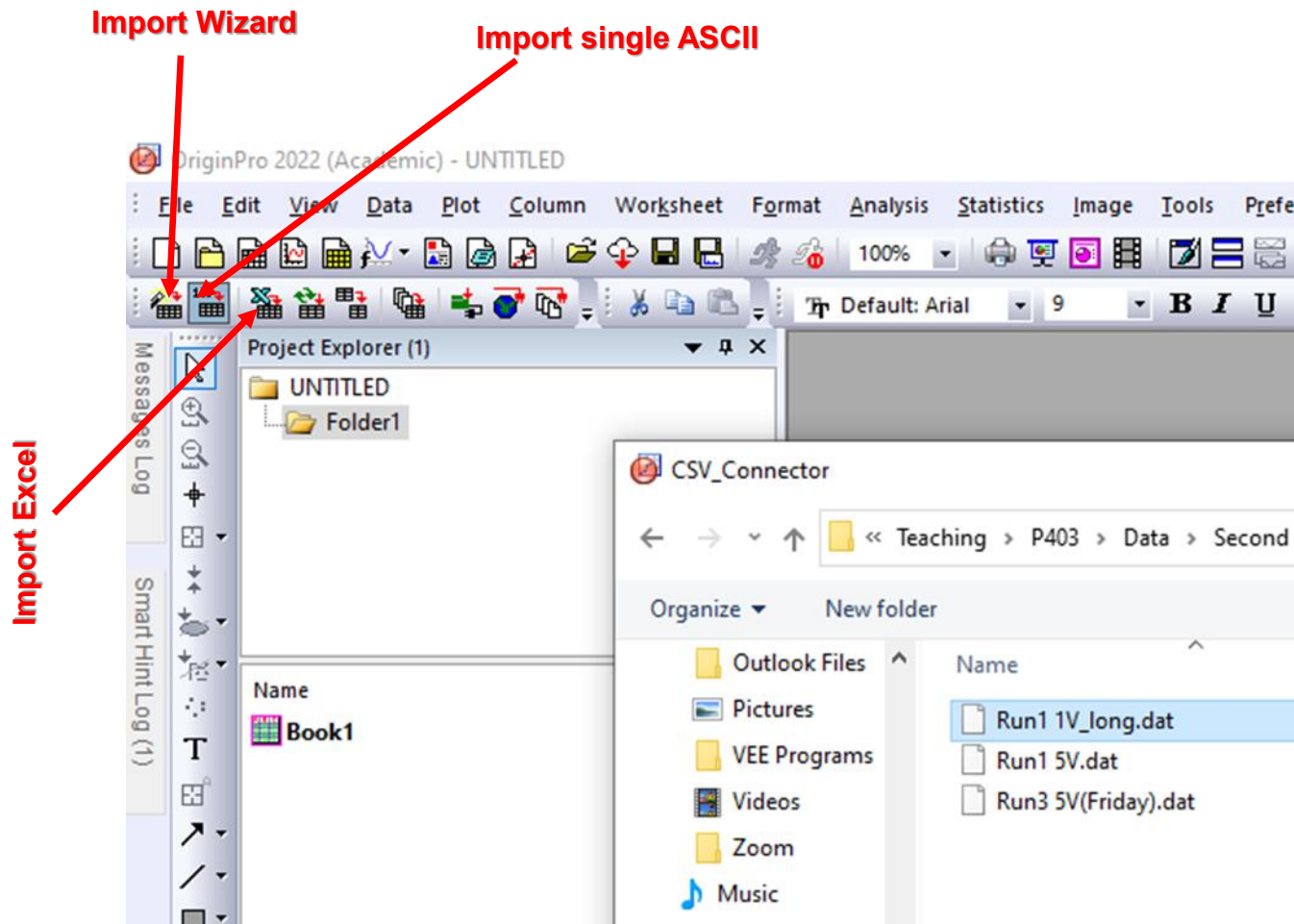
1. Graphical presentation of data

2. Data analysis

3. Preparation of publication-quality figures

- Specially designed for scientific graphics
- “Standard” Windows application, does not require knowledge of C++ or any other high level computer language
- Can write special functions or procedures using Origin programming tools

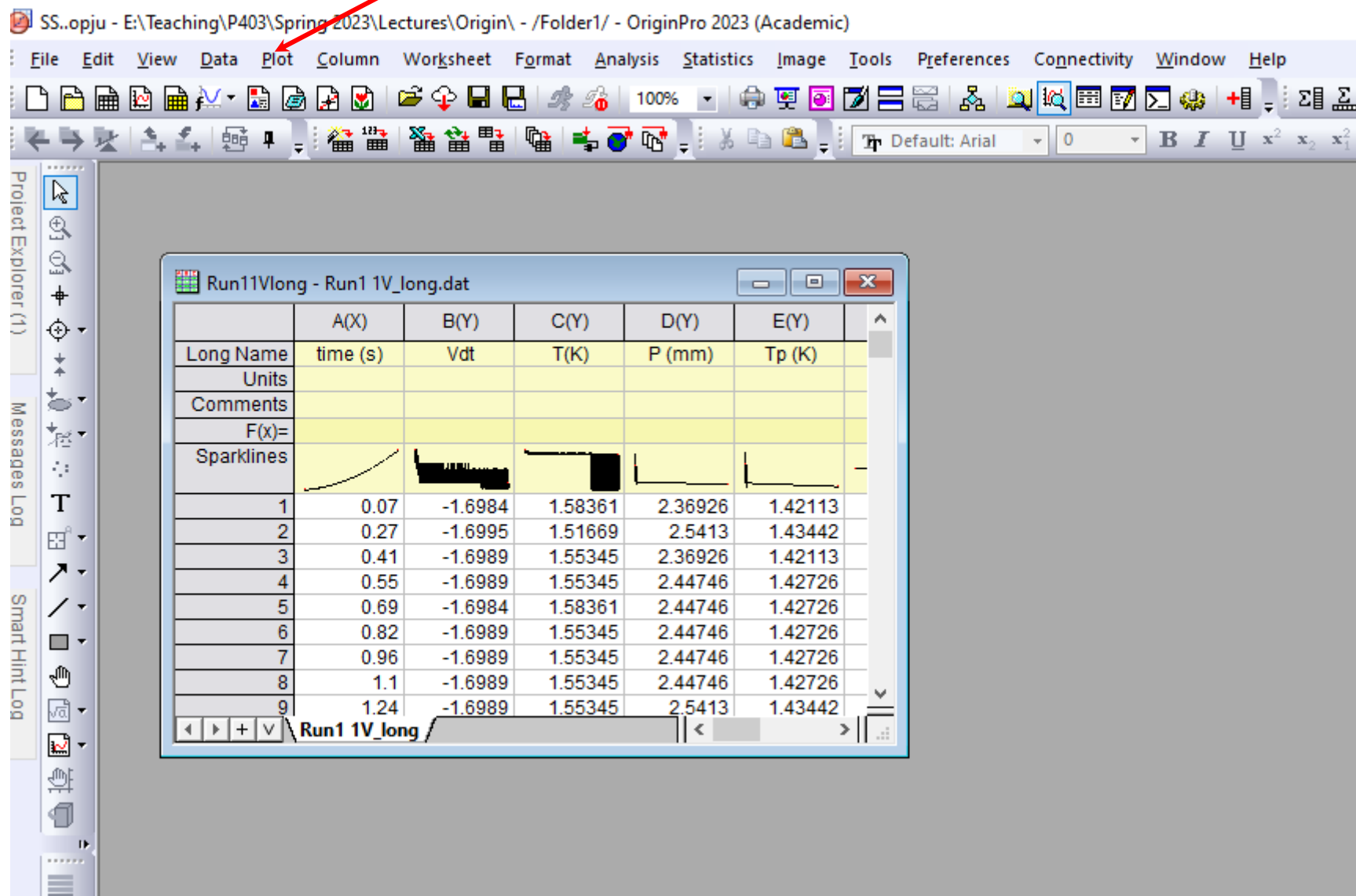
Importing data



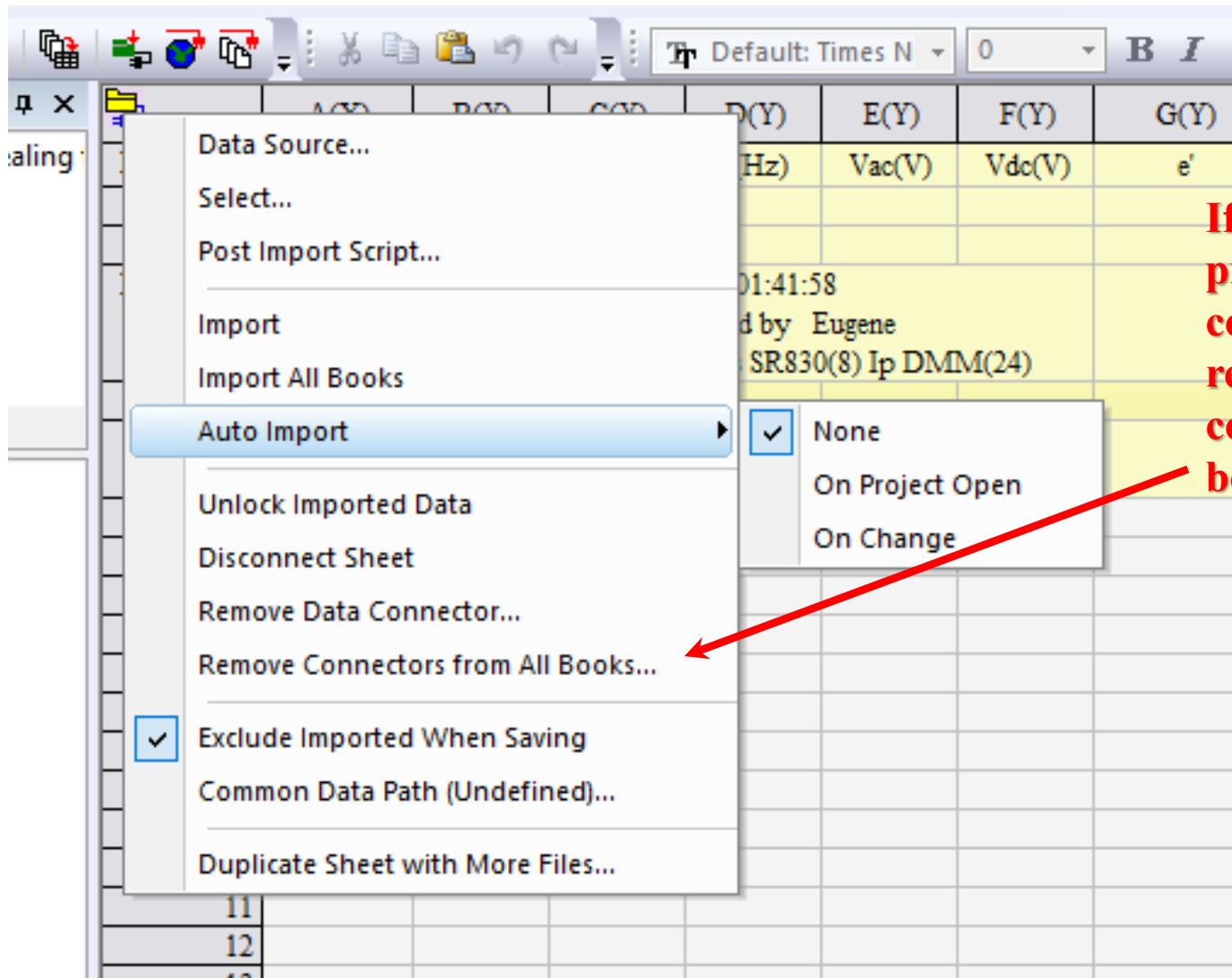
Can drag and drop .dat or .txt files into empty spreadsheet
Or import files

Graphical presentation of data: Basic Plot

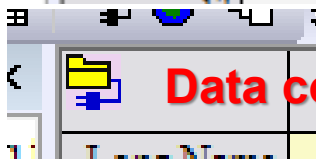
Plot menu



Graphical presentation of data: Basic Plot



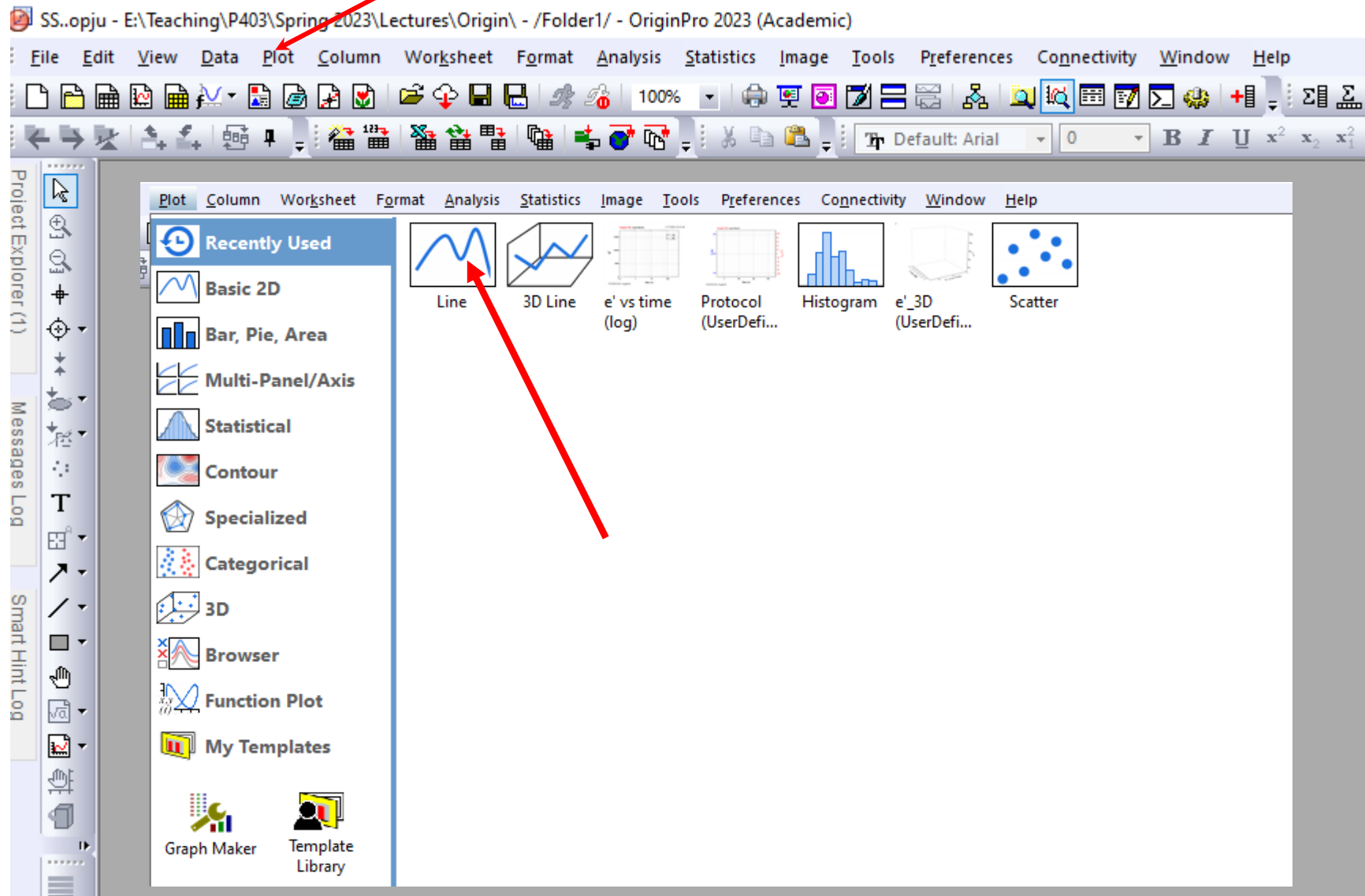
If you plan to use project on another computer, you need to remove the data connectors from all books



Data connector - new option in 2025, 2026 versions

Graphical presentation of data: Basic Plot

Plot menu



Graphical presentation of data: Basic Plot

Plot menu

SS..opju - E:\Teaching\P403\Spring 2023\Lectures\Origin\ - /Folder1/ - OriginPro 2023 (Academic)

File Edit View Data Plot Column Worksheet Format Analysis Statistics Image Tools Preferences Connectivity Window Help

Plot Setup: Select Data to Create New Plot

Plot Type: Line

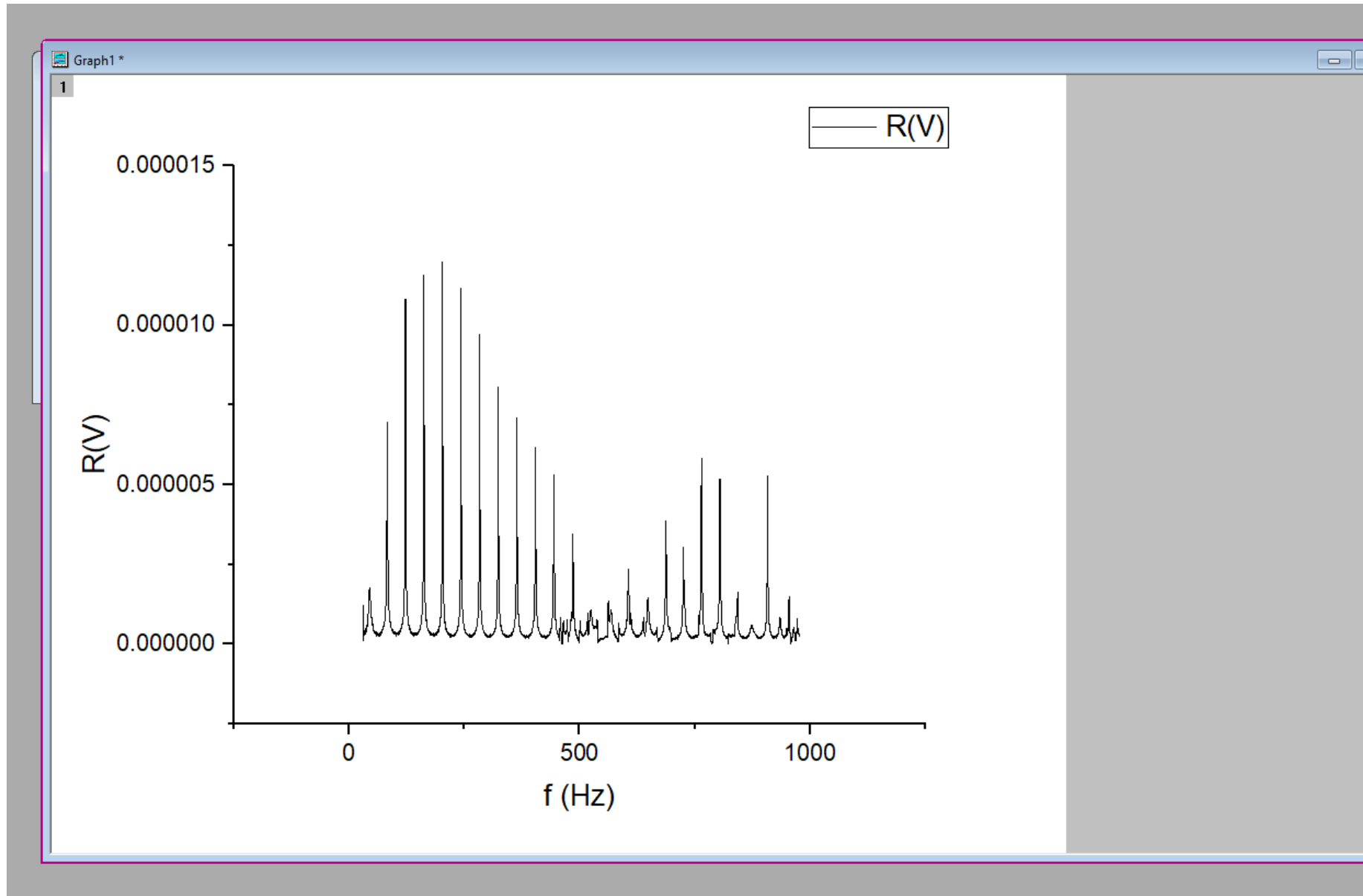
Show(S) [Run11Vlong]"Run1 1V_long"

X	Y	yEr	L	Column	Long Name	Comments	Sampling Interval	Position
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<autoX>	From/Step=			0
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	A	time (s)			1
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	B	Vdt			2
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	C	T(K)			3
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	D	P (mm)			4
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	E	TP (K)			5
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	F	Uac (V)			6
<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	G	f (Hz)			7
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	H	X (V)			8
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	I	Y(V)			9
<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	J	R(V)			10

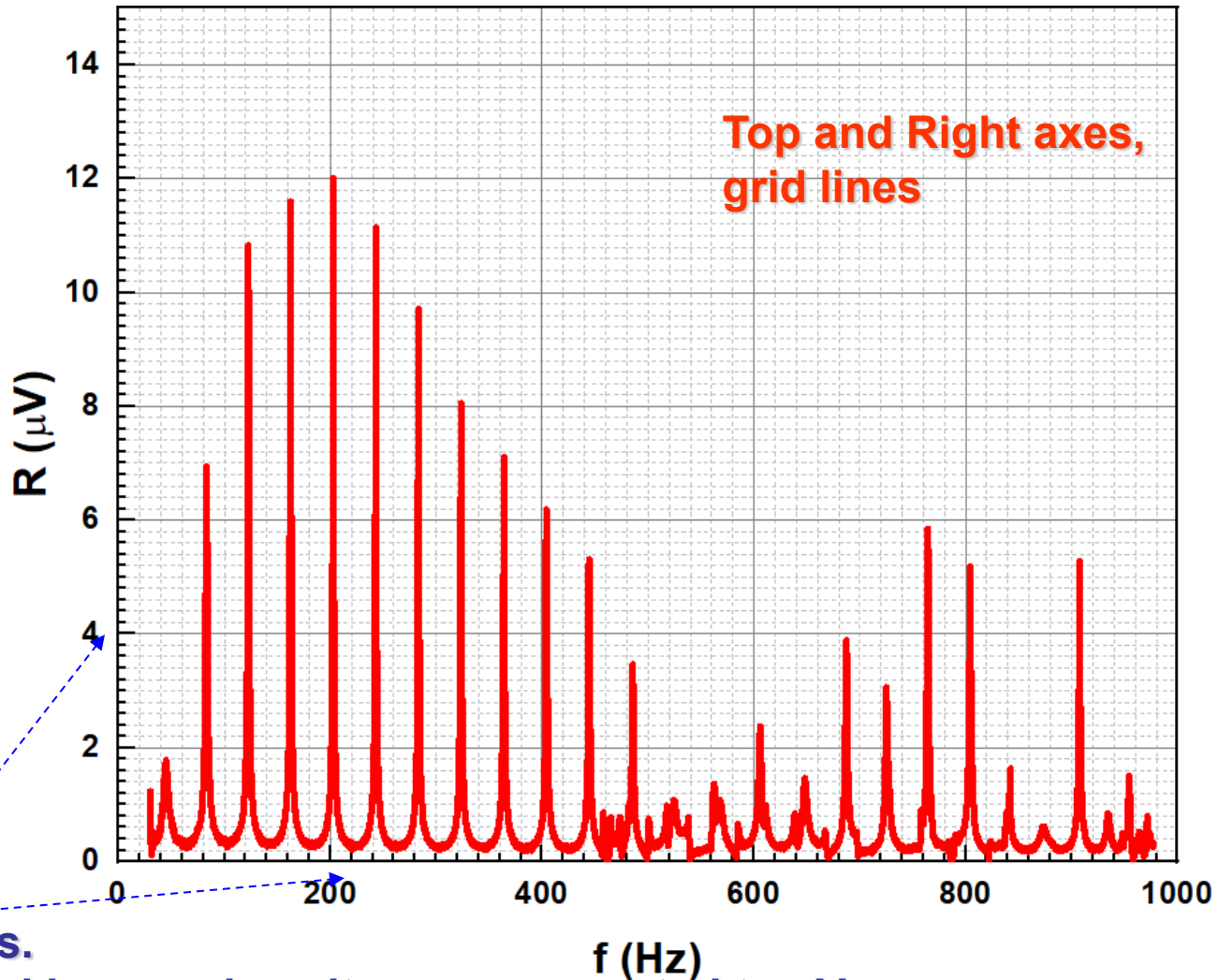
OK Cancel

Graph Maker Template Library

Graphical presentation of data: Basic Plot



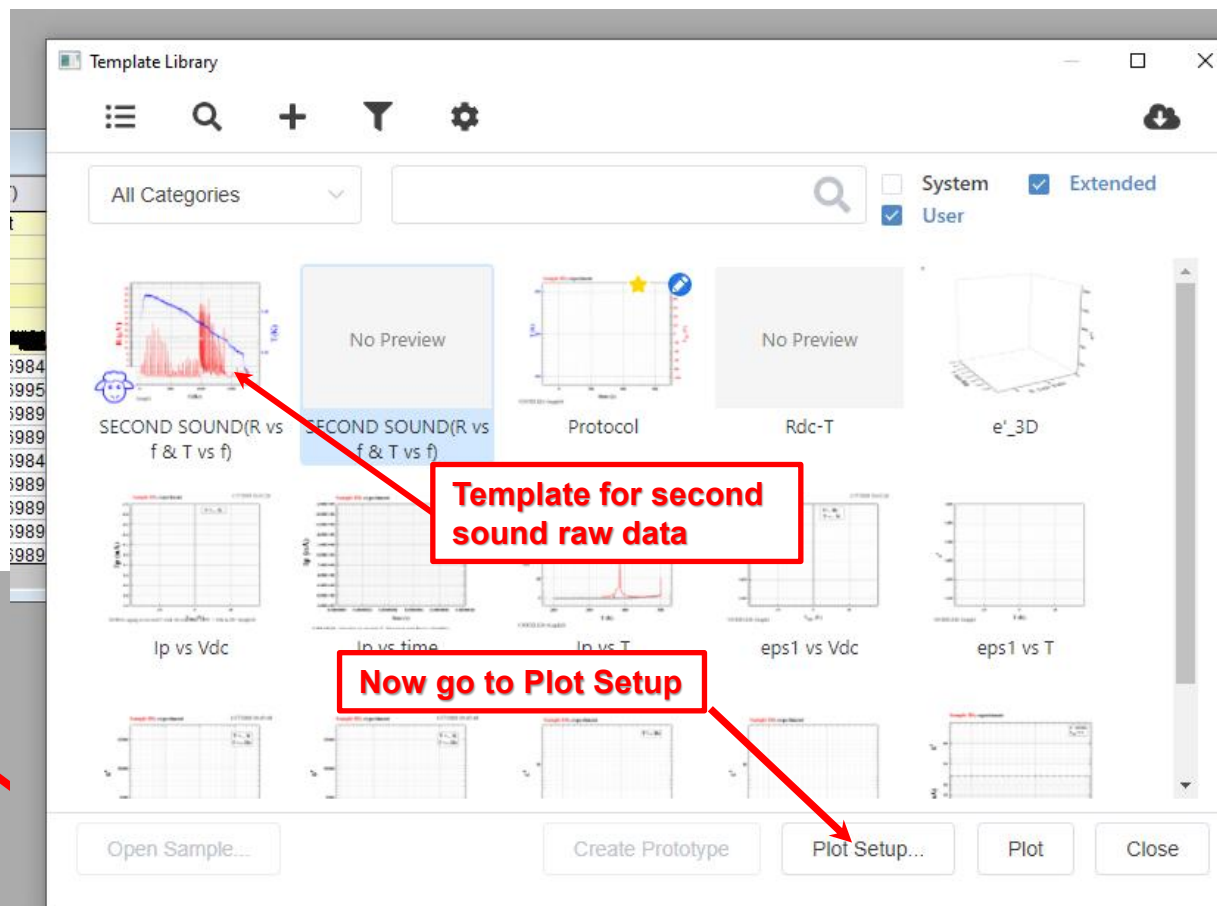
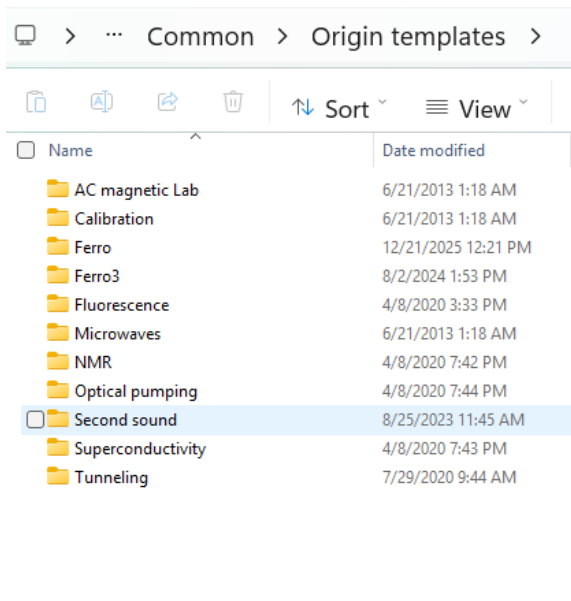
Graphical presentation of data: Basic Plot



Bold tick labels.

For a better-looking graph, volts were converted to μV

Graphical presentation of data: Templates



Templates Library

Template for second sound raw data

Now go to Plot Setup



Graphical presentation of data: Templates

Plot Setup: Select Data to Create New Plot

Plot Type:

	X	Y	yEr	L	Column	Long Name	Comments	Sampling Interval	Position
Line	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<autoX>	From/Step=			0
Scatter	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	A	time (s)			1
Line + Symbol	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	B	Vdt			2
Column / Bar	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	C	T(K)			3
Area	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	D	P (mm)			4
Stacked Area	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	E	TP (K)			5
Fill Area	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	F	Uac (V)			6
High - Low - Close	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	G	f (Hz)			7
Floating Column	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	H	X (V)			8
XYAM Vector	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	I	Y(V)			9
XYXY Vector	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	J	R(V)			10
Bubble	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>					
Color Mapped	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>					

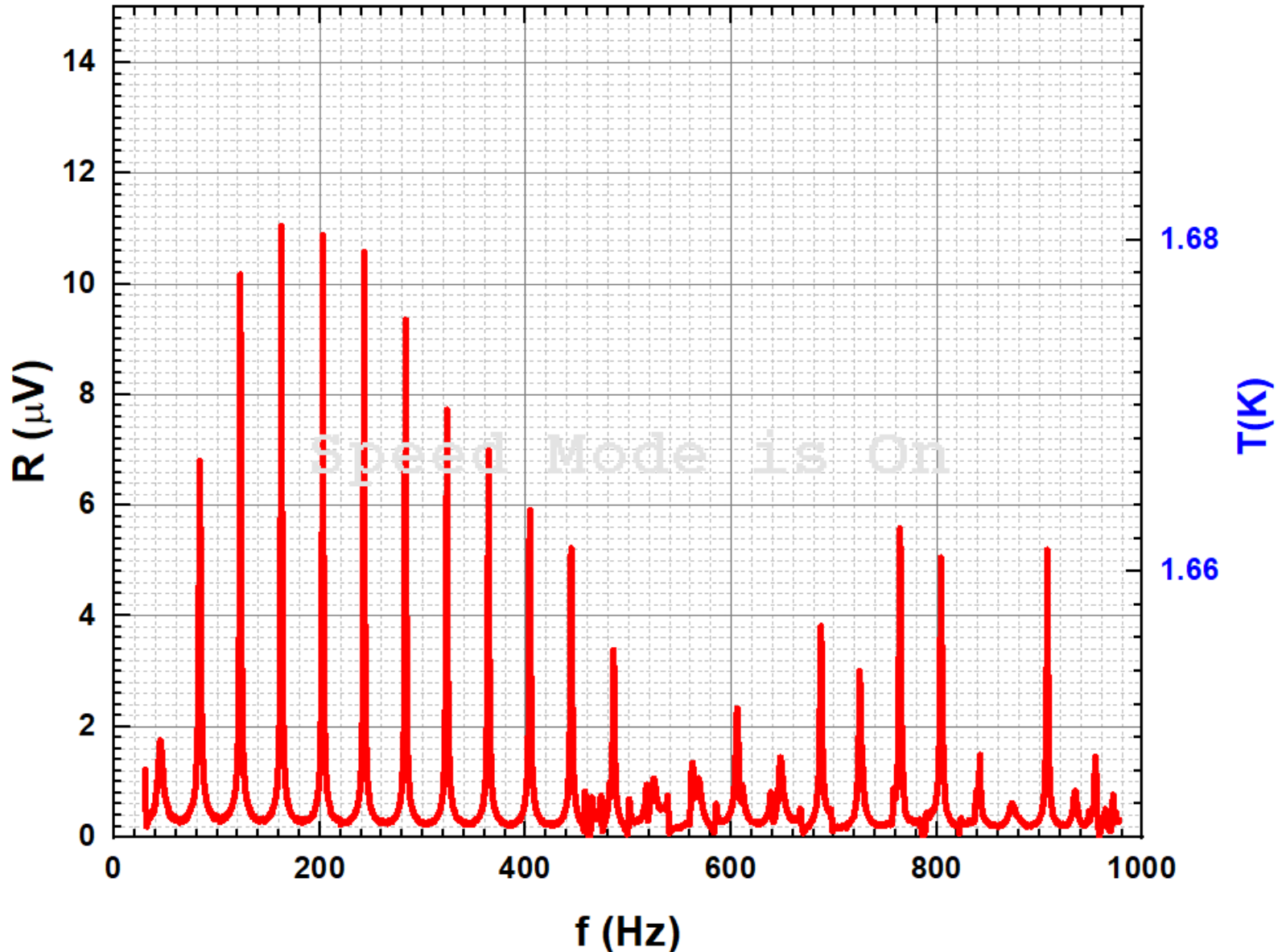
Plot List: Drag entries in 1st column to reorder or to move between layers. Right click for other options.

Plot	Range	Show	Plot Type	Legend
Layer 1	<input checked="" type="checkbox"/> Re	<input checked="" type="checkbox"/>		
Style Holder			Line	
Style Holder			Line	
Style Holder			Line	
Group				
Style Holder			Line	
Style Holder			Line	
Style Holder			Line	
Layer 2	<input checked="" type="checkbox"/> Re	<input checked="" type="checkbox"/>		

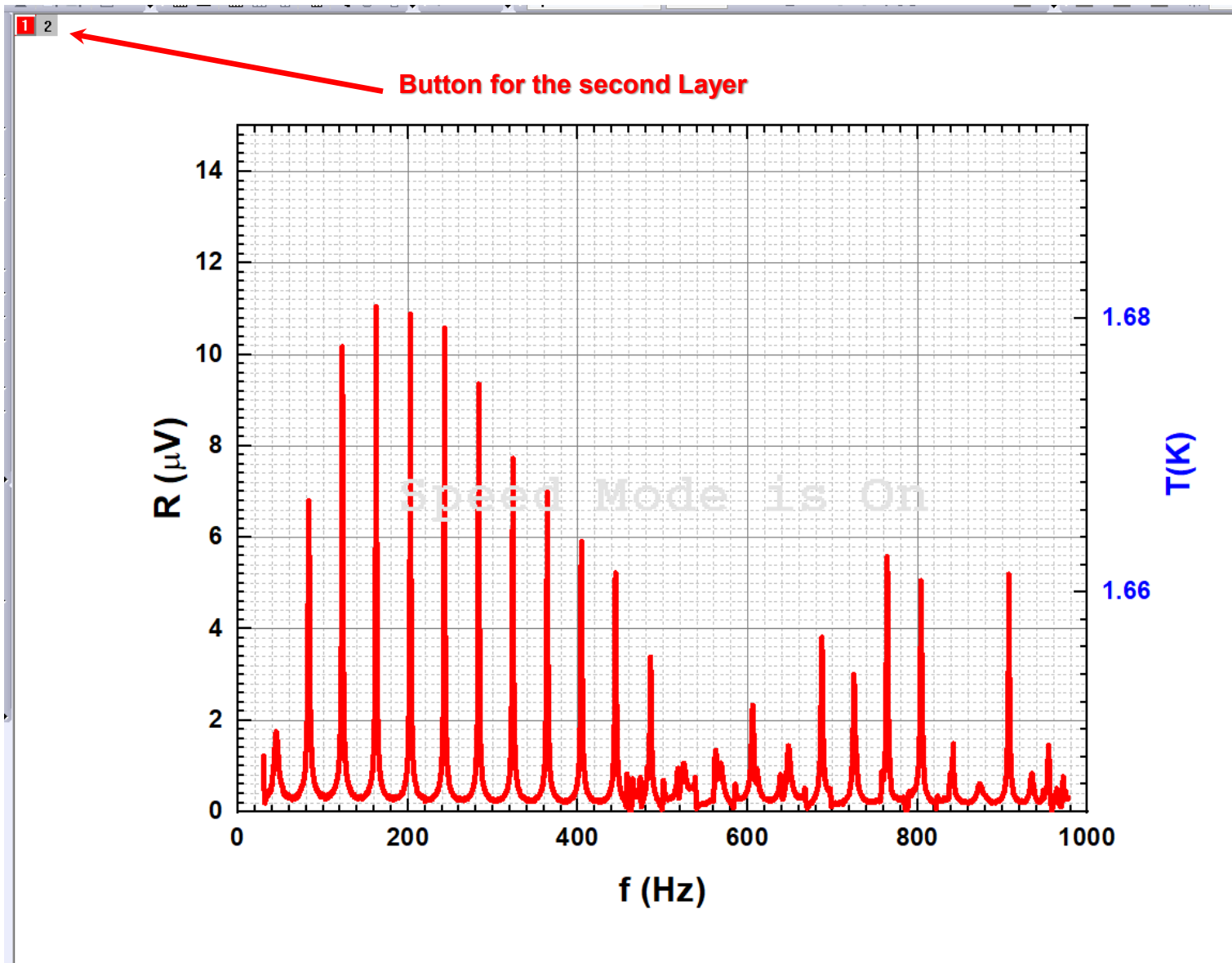
Preview OK Cancel Apply

Open Sample... Create Prototype

Graphical presentation of data: Templates



Graphical presentation of data: Extra Layer



1 2

Button for the second Layer

Plot Setup: Configure Data Plots in Layer

Plot Type: [Run11Vlong]"Run1 1V_long"

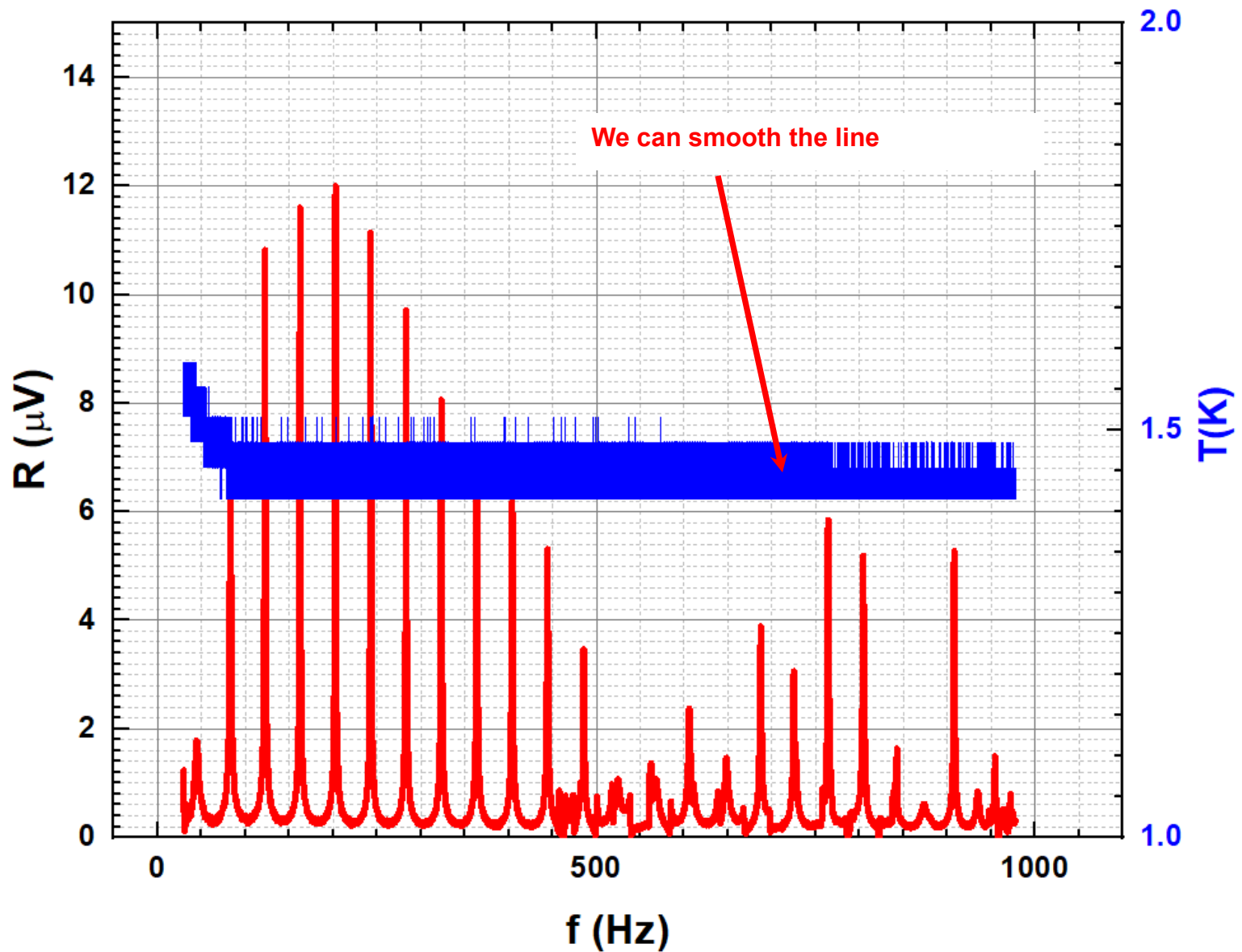
	X	Y	yEr	L	Column	Long Name	Comments	Sampling Interval	Position
Line	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<autoX>	From/Step=			0
Scatter	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	A	time (s)			1
Line + Symbol	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	B	Vdt			2
Column / Bar	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	C	T(K)			3
Area	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	D	P (mm)			4
Stacked Area	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	E	TP (K)			5
Fill Area	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	F	Uac (V)			6
High - Low - Close	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	G	f (Hz)			7
Floating Column	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	H	X (V)			8
XYAM Vector	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	I	Y(V)			9
XYXY Vector	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	J	R(V)			10
Bubble	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>					
Color Mapped									
Bubble + Color Mapped									

Plot List: Drag entries in 1st column to reorder or to move between layers. Right click for other options.

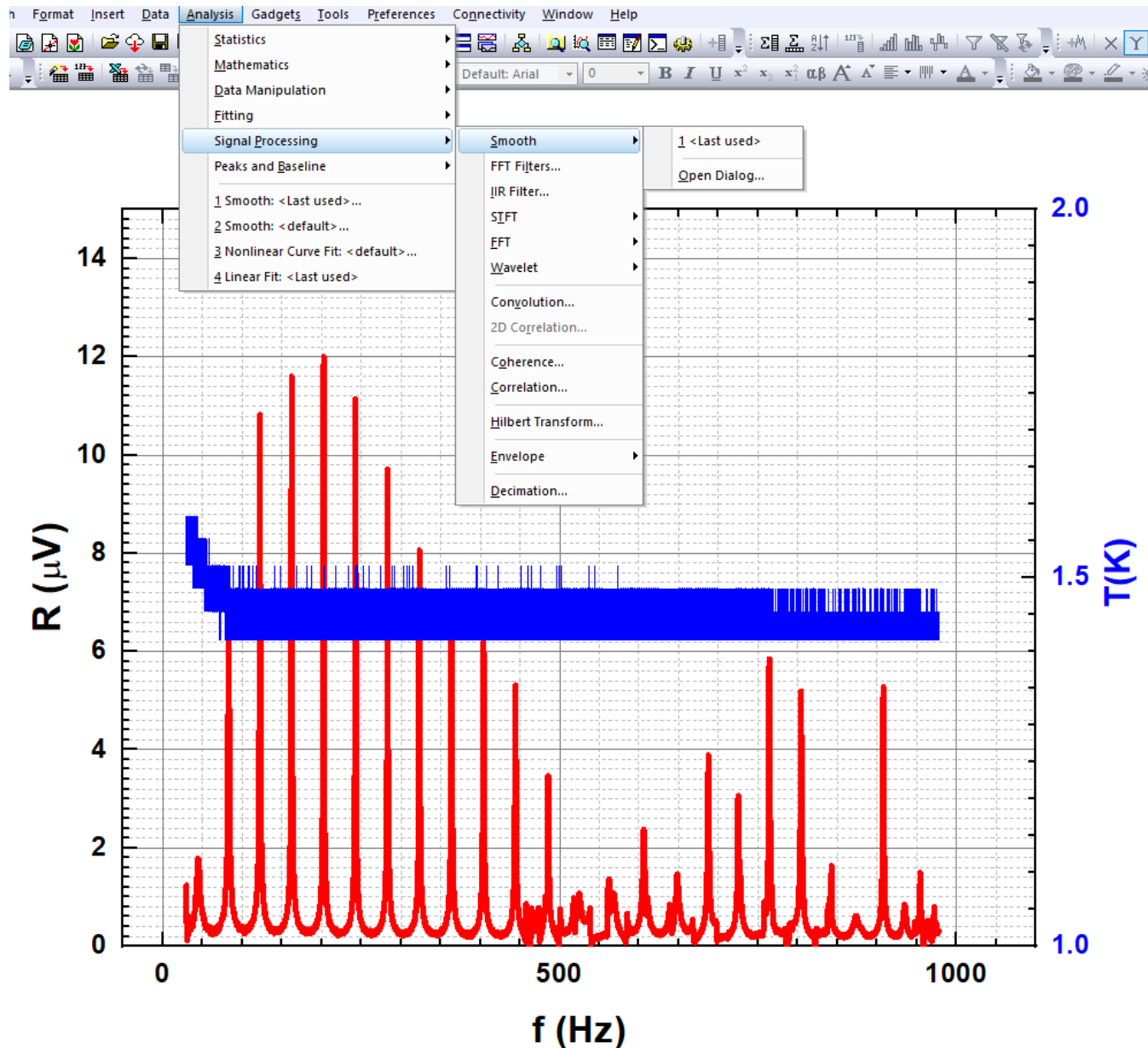
Plot	Range	Show	Plot Type	Legend
Layer 1	<input type="checkbox"/> Rescale	<input checked="" type="checkbox"/>		
[Run1 1V_long.dat]Run1 1V_long! "f (Hz)"(X), "R(V)"(Y) [1*:94707*] 30.01 < X < 977.07, 0 < Y < 1.20039E-5		<input checked="" type="checkbox"/>	Line	R(V)
Layer 2	<input checked="" type="checkbox"/> Rescale	<input checked="" type="checkbox"/>		
[Run1 1V_long.dat]Run1 1V_long! "f (Hz)"(X), "T(K)"(Y) [1*:94707*] 30.01 < X < 977.07, 0 < Y < 1.58361		<input checked="" type="checkbox"/>	Line	T(K)

Preview OK Cancel Apply

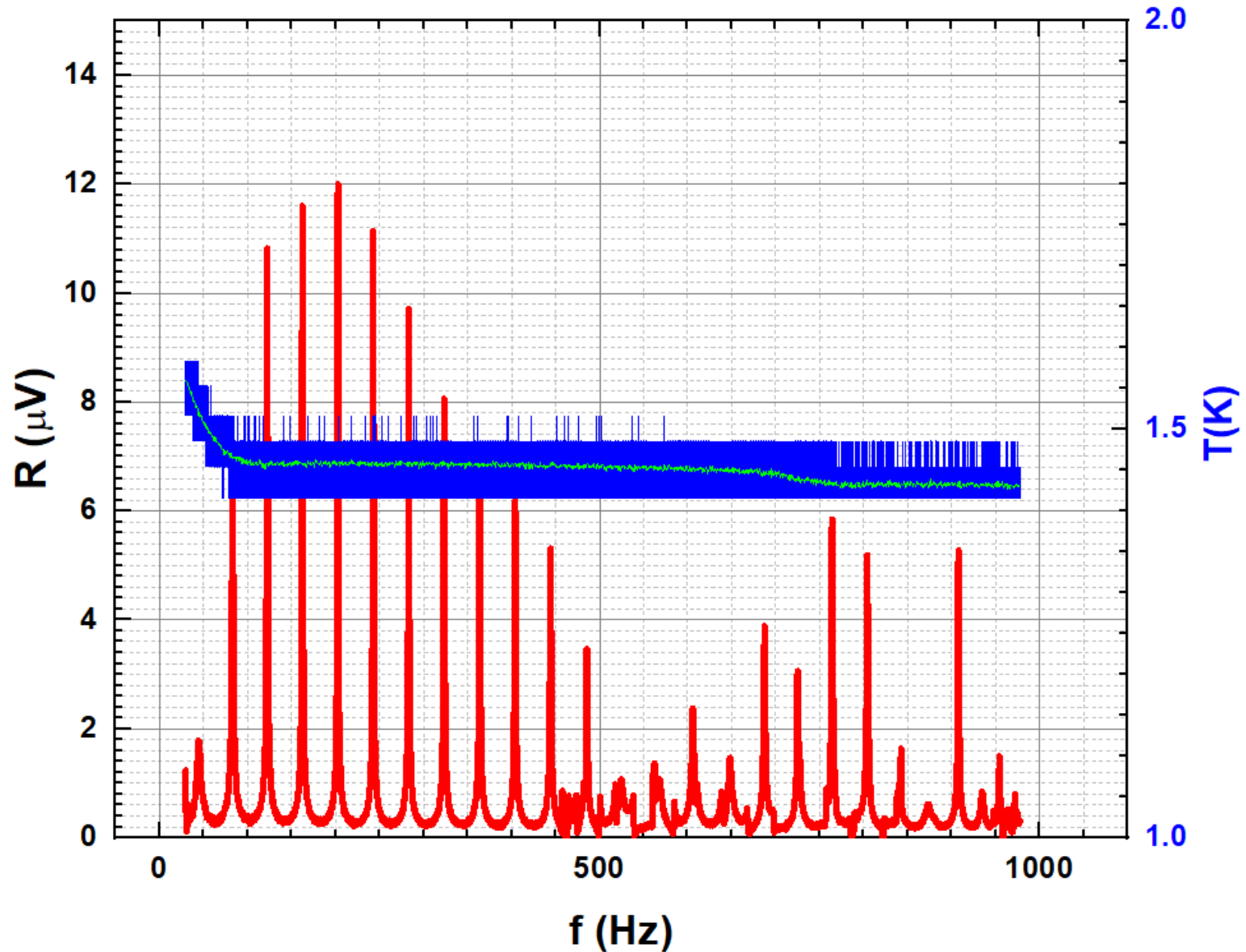
Graphical presentation of data: Extra Layer



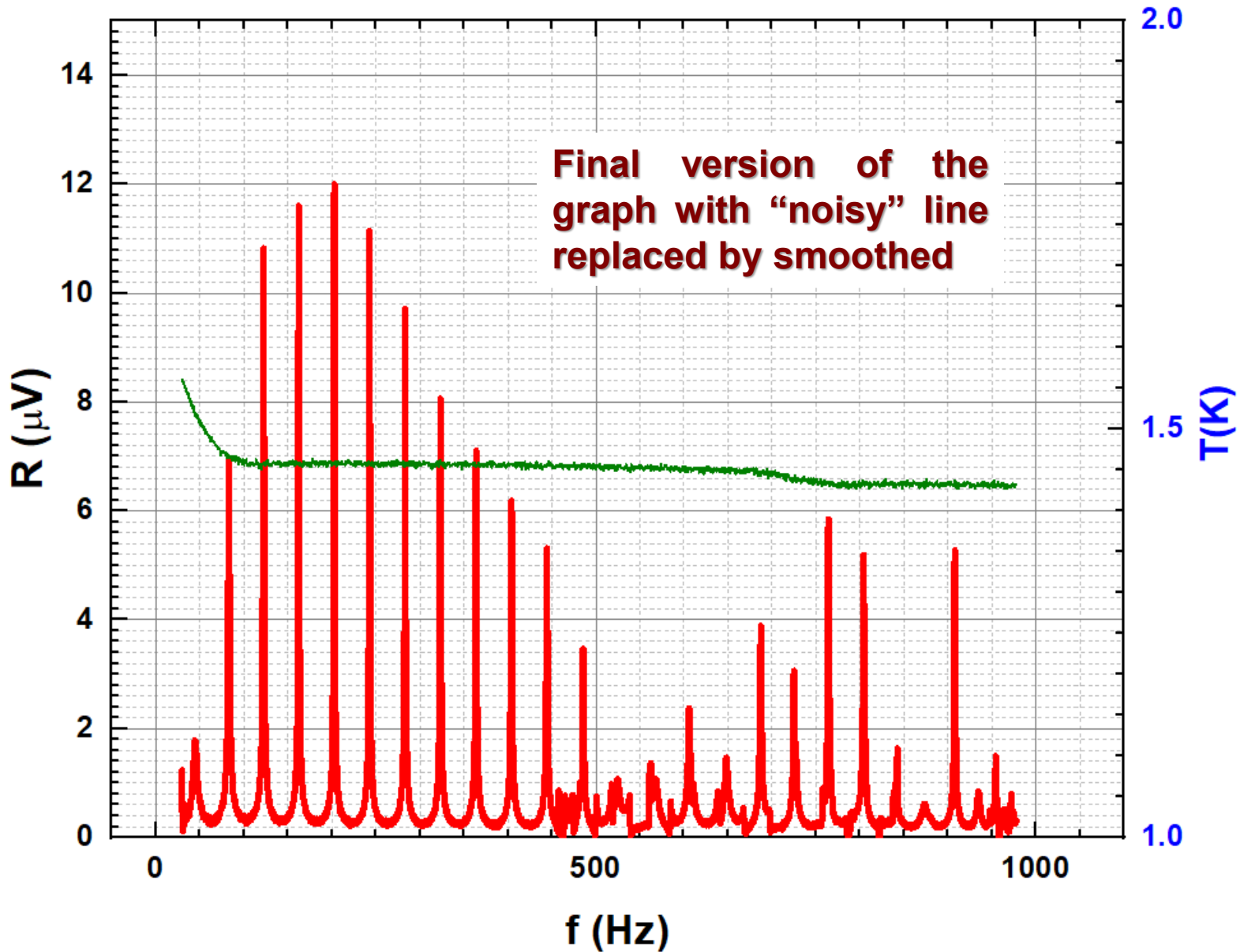
Graphical presentation of data: Extra Layer



Graphical presentation of data: Extra Layer



Graphical presentation of data: Extra Layer



peaks

ng 2025\lectures\Origin 7\Origin 7 to 2025 (Academic) [origin]

Format Insert Data Analysis Gadgets Tools Preferences Connectivity Window Help

Statistics

Mathematics

Data Manipulation

Fitting

Signal Processing

Peaks and Baseline

1 Smooth: <Last used>...

2 Smooth: <default>...

3 Nonlinear Curve Fit: <default>...

4 Linear Fit: <Last used>

Default: Arial

0

B

I

U

x²

x₂

x₂

αβ

Multiple Peak Fit

Peak Analyzer

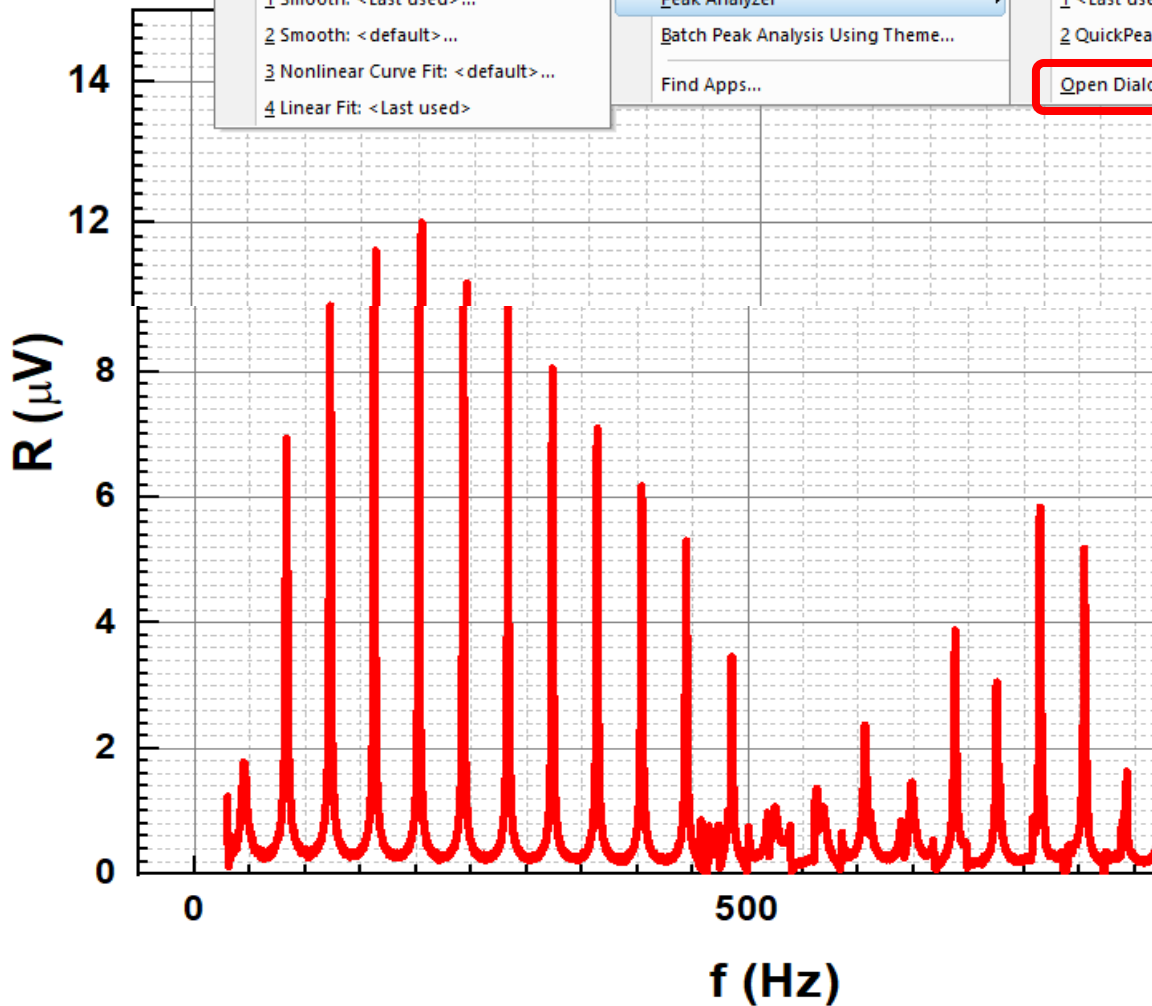
Batch Peak Analysis Using Theme...

Find Apps...

1 <Last used>

2 QuickPeak

Open Dialog



Peak Analyzer

Dialog Theme *

Goal - Integrate Peaks

- Baseline Mode
- Baseline Treatment
- Find Peaks
- Integrate Peaks
- Finish

Prev Next Finish Cancel

pa_peaks

Current Number of Peaks 0

Enable Auto Find ☒

Find Add Modify/Del Clear All Save... Load... Peaks Info...

Snap to Spectrum ☐

Peak Finding Settings

Show 2nd Derivative ☐

Smoothing Window Size 0 ☐ Auto

Direction Positive

Method Local Maximum

Local Points 2

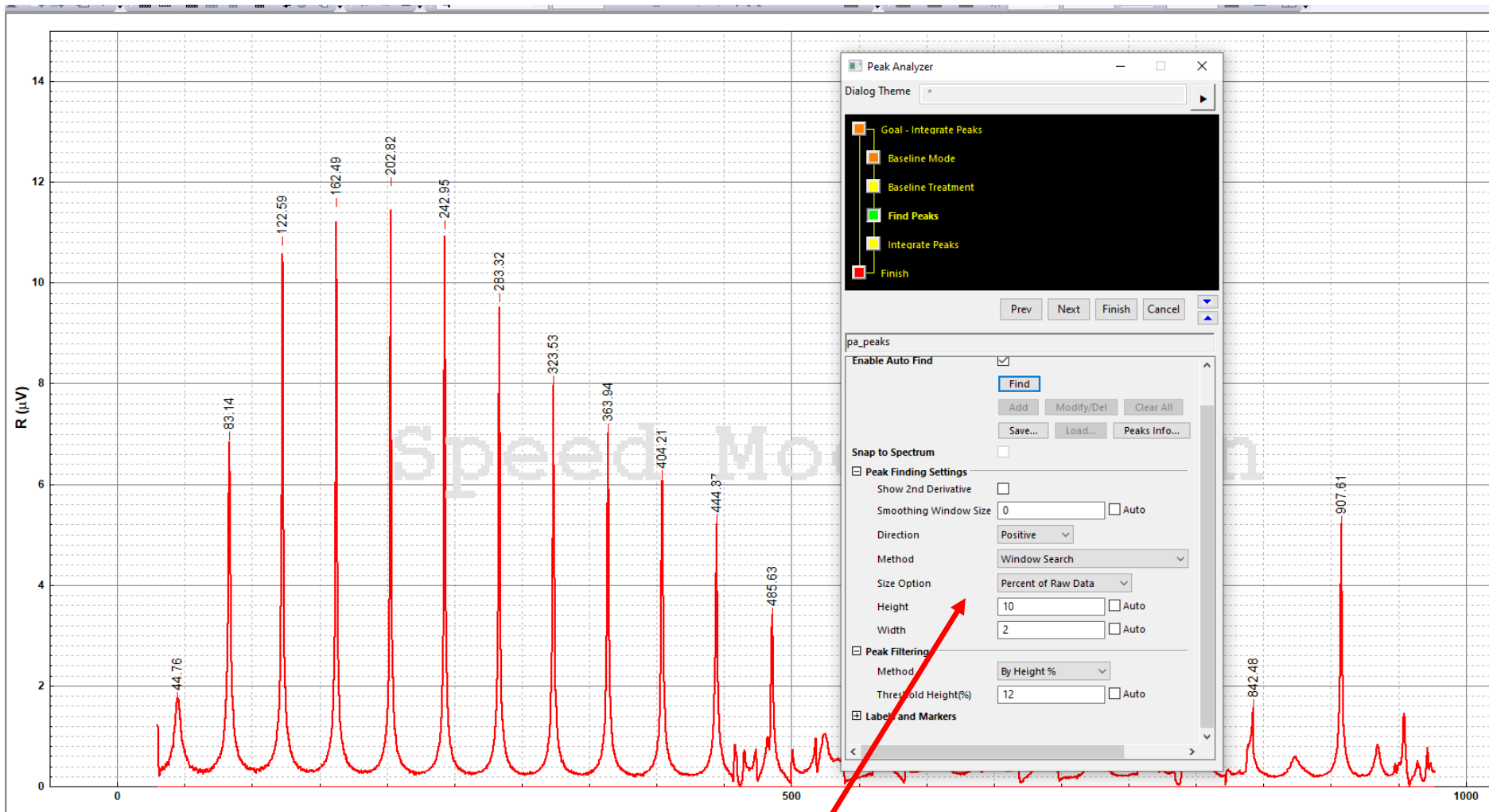
Peak Filtering

Method By Height %

Threshold Height(%) 20 ☒ Auto

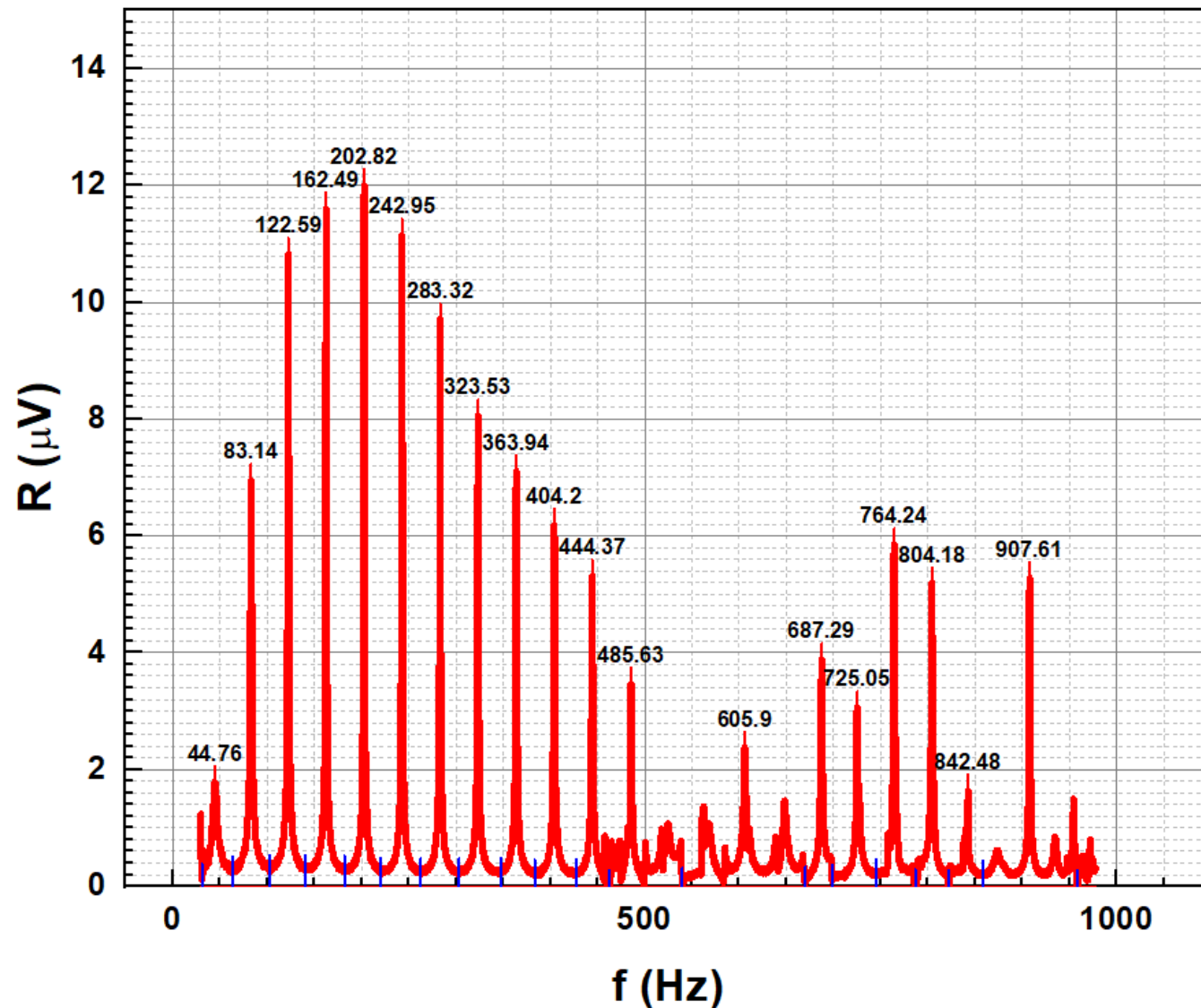
Labels and Markers

Graphical presentation of data: Finding peaks

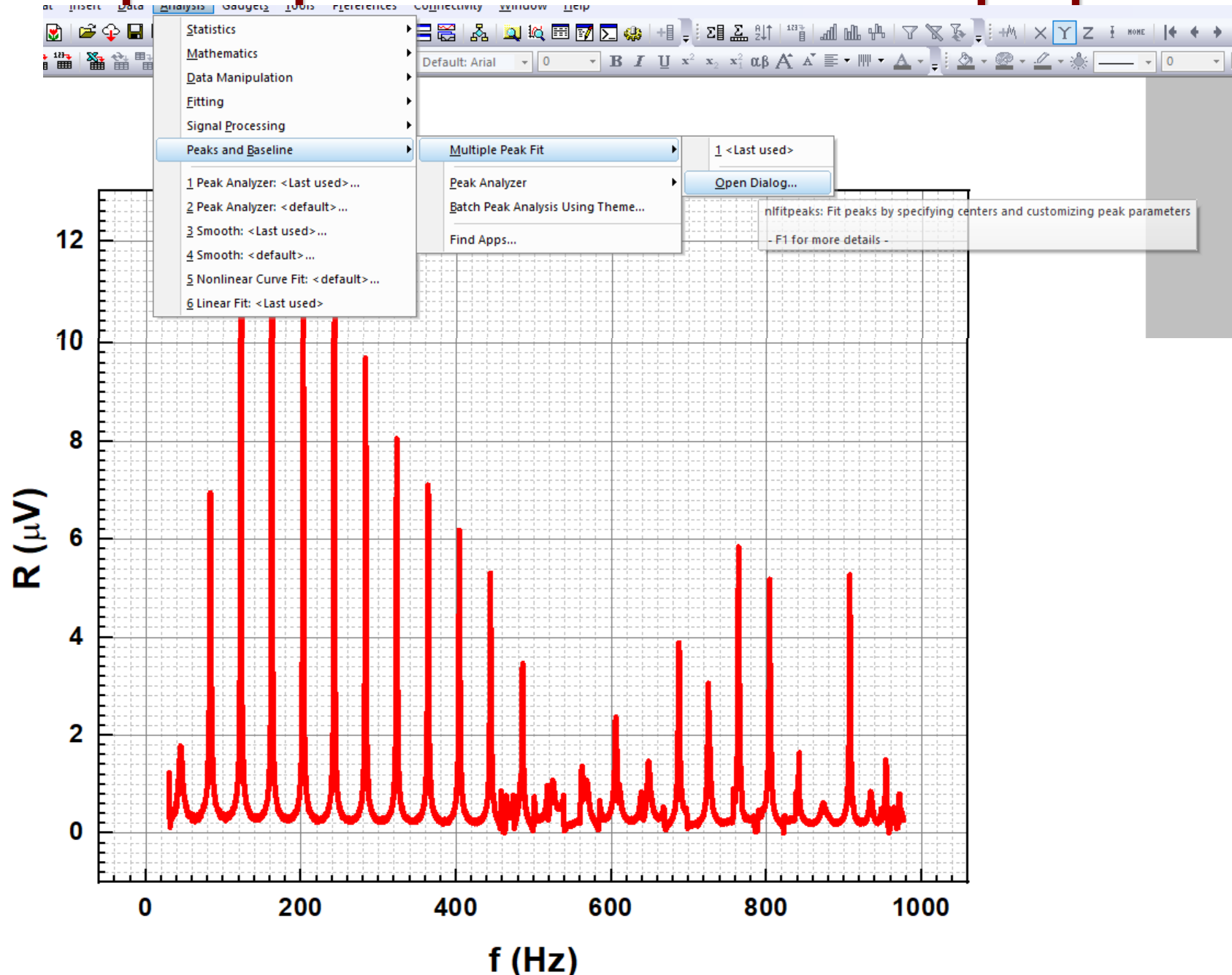


Choose the proper search parameters

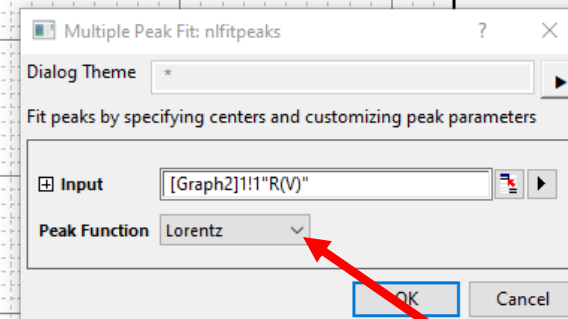
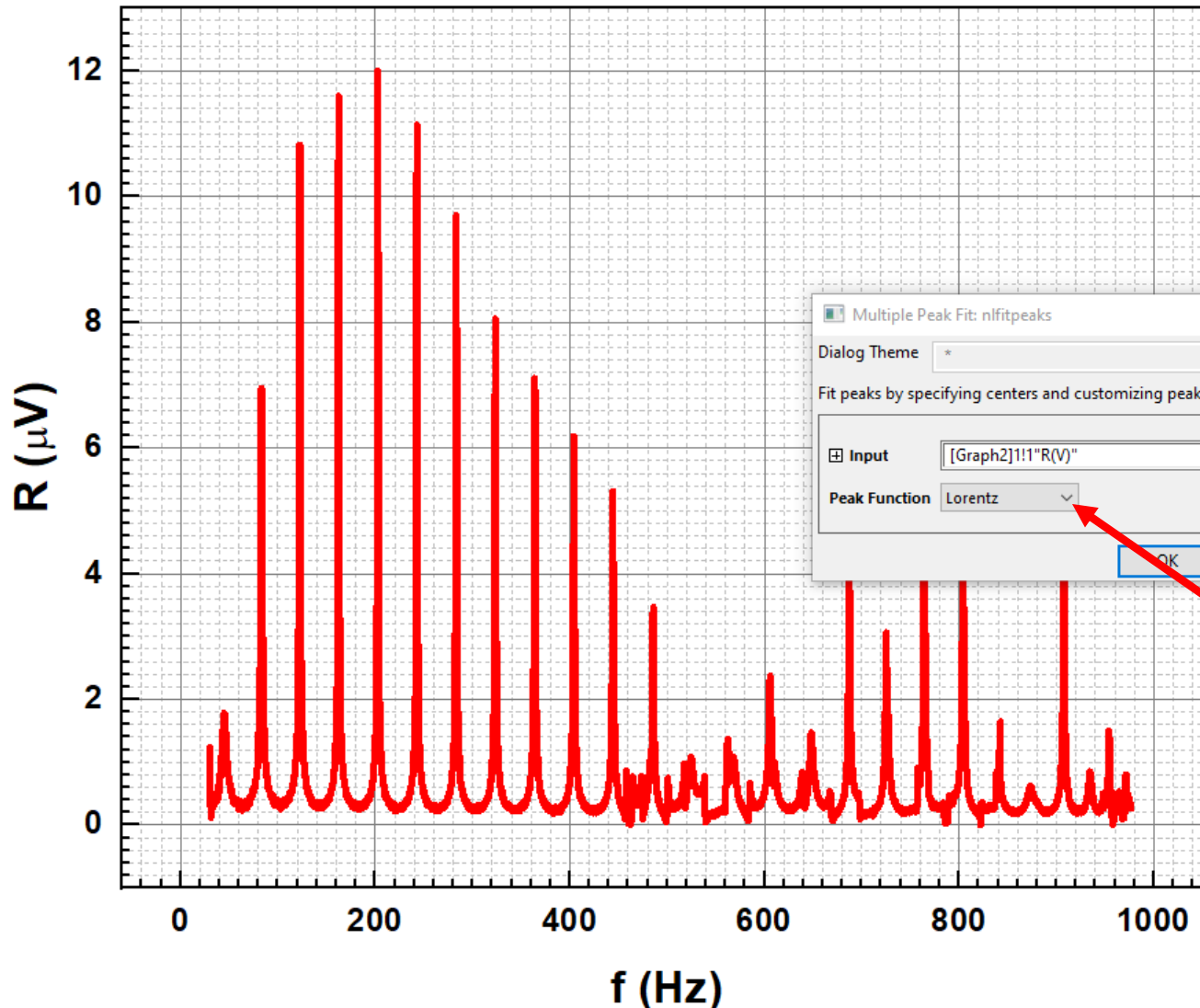
Graphical presentation of data: Finding peaks



Graphical presentation of data: Multiple peak Fit

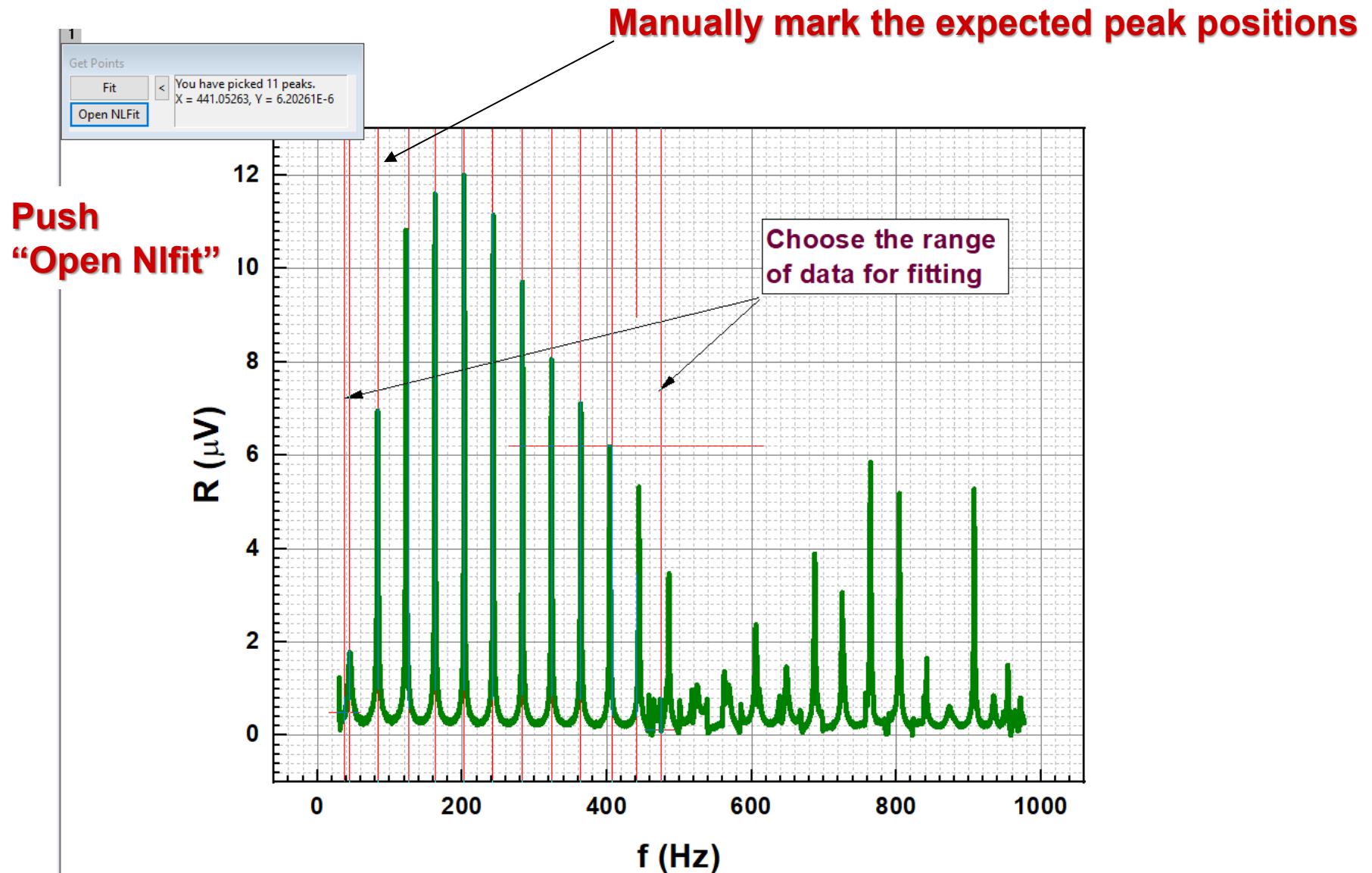


Graphical presentation of data: Multiple peak Fit

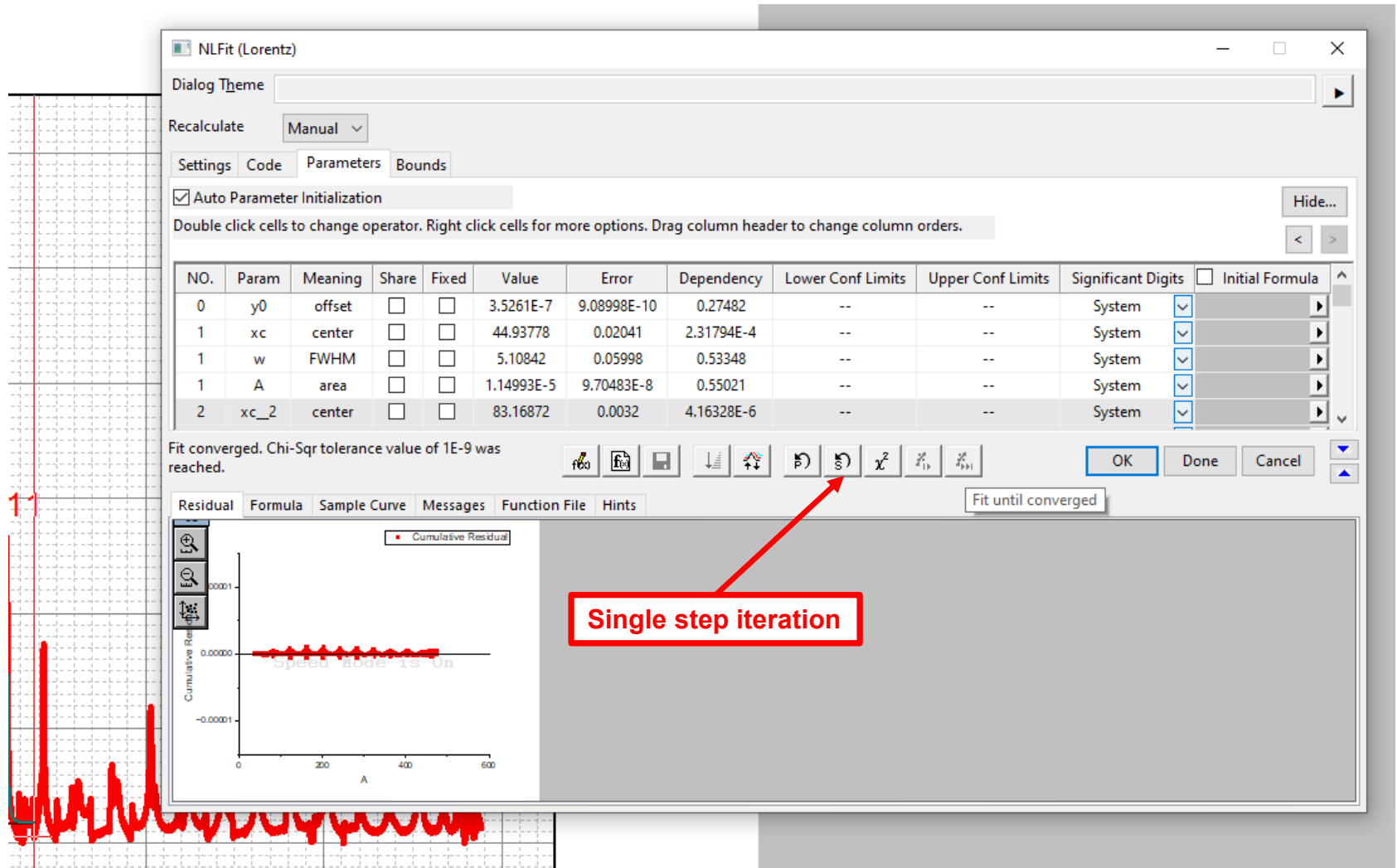


**Choose the
expected
line shape**

Graphical presentation of data: Multiple peak Fit

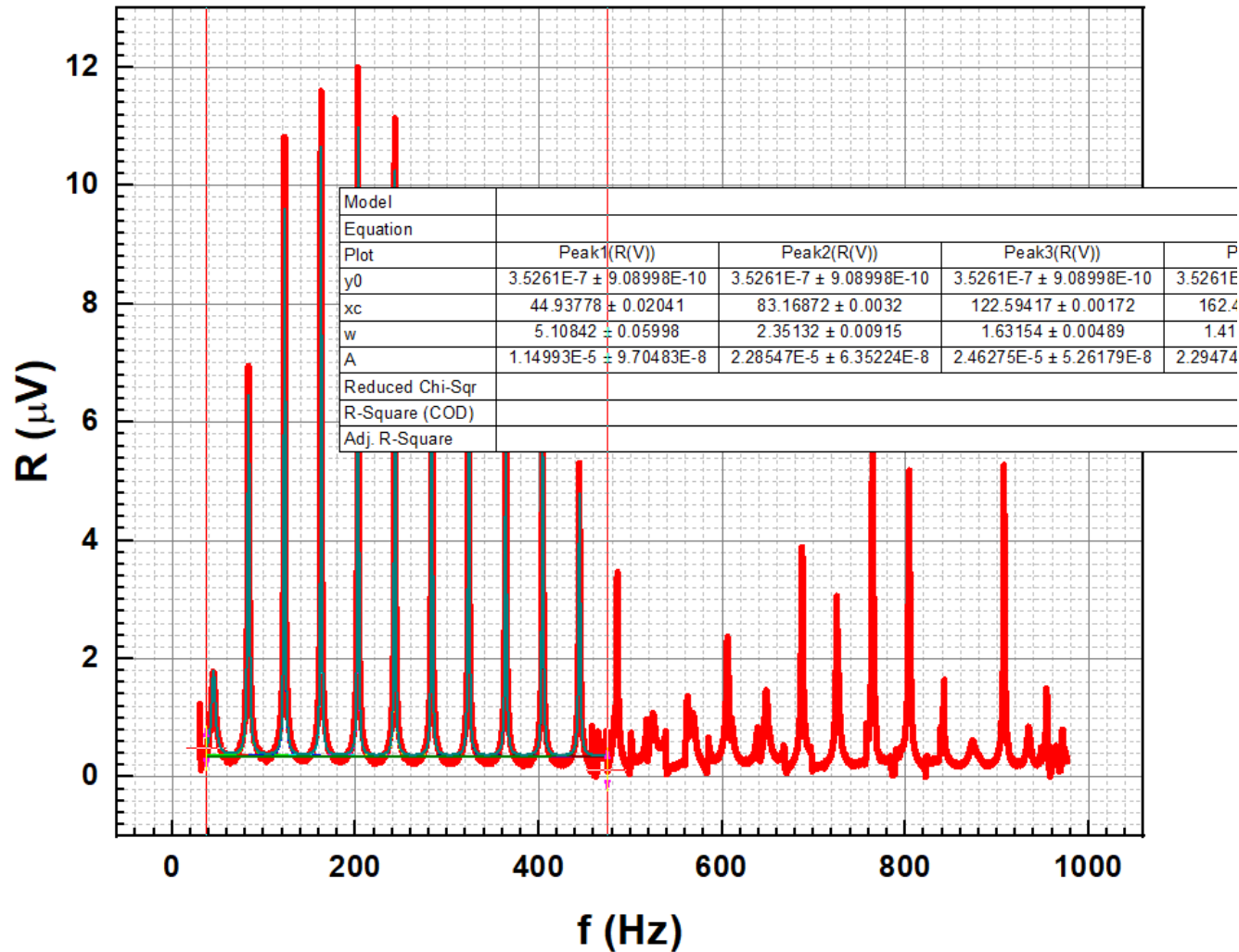


Graphical presentation of data: Multiple peak Fit



Recommendation: start first with “Single step iteration” and next if fitting goes in proper direction push “Fit until converged”

Graphical presentation of data: Multiple peak Fit



Finally, you will have the data plot with set of fitting lines plus the table with found parameters

Graphical presentation of data: Multiple peak Fit

All fitting results could be found in added layer to data worksheet

100 : Fit converged. Chi-Sqr tolerance value of 1E-9 was reached.

Summary

	y0		xc		w		A		H		Statistics	
	Value	Standard Error	Value	Standard Error	Value	Standard Error	Value	Standard Error	Value	Standard Error	Reduced Chi-Sqr	Adj. R-Square
Peak1(R(V))	3.5261E-7	9.08998E-10	44.93778	0.02041	5.10842	0.05998	1.14993E-5	9.70483E-8	1.43306E-6	1.15019E-8	2.62144E-14	0.98415
Peak2(R(V))	3.5261E-7	9.08998E-10	83.16872	0.0032	2.35132	0.00915	2.28547E-5	6.35224E-8	6.18792E-6	1.68499E-8		
Peak3(R(V))	3.5261E-7	9.08998E-10	122.59417	0.00172	1.63155	0.00489	2.46275E-5	5.2618E-8	9.60952E-6	2.02275E-8		
Peak4(R(V))	3.5261E-7	9.08998E-10	162.49202	0.0015	1.41975	0.00426	2.29474E-5	4.90025E-8	1.02897E-5	2.16838E-8		
Peak5(R(V))	3.5261E-7	9.08998E-10	202.81031	0.00139	1.30551	0.00395	2.17874E-5	4.69447E-8	1.06244E-5	2.26126E-8		
Peak6(R(V))	3.5261E-7	9.08998E-10	242.93645	0.0015	1.32379	0.00428	2.05619E-5	4.72812E-8	9.88834E-6	2.24559E-8		
Peak7(R(V))	3.5261E-7	9.08998E-10	283.3134	0.0018	1.42423	0.00513	1.91415E-5	4.90864E-8	8.55609E-6	2.16497E-8		
Peak8(R(V))	3.5261E-7	9.08998E-10	323.52904	0.00231	1.60858	0.00659	1.79125E-5	5.22522E-8	7.08916E-6	2.03714E-8		
Peak9(R(V))	3.5261E-7	9.08998E-10	363.9371	0.0027	1.70221	0.00769	1.67149E-5	5.37935E-8	6.25132E-6	1.98032E-8		
Peak10(R(V))	3.5261E-7	9.08998E-10	404.21923	0.0032	1.8129	0.00913	1.54766E-5	5.5566E-8	5.43479E-6	1.91892E-8		
Peak11(R(V))	3.5261E-7	9.08998E-10	444.35606	0.00381	1.89097	0.01086	1.38639E-5	5.67808E-8	4.66745E-6	1.8789E-8		

ANOVA

		DF	Sum of Squares	Mean Square	F Value	Prob>F
R(V)	Regression	33	7.12026E-8	2.15765E-9	82307.90245	<0.0001
	Residual	43715	1.14596E-9	2.62144E-14		
	Uncorrected Total	43749	1.01914E-7			
	Corrected Total	43748	7.23485E-8			

R(V): At the 0.05 level, the fitting function is significantly better than the function y=constant.

Fitted Curve

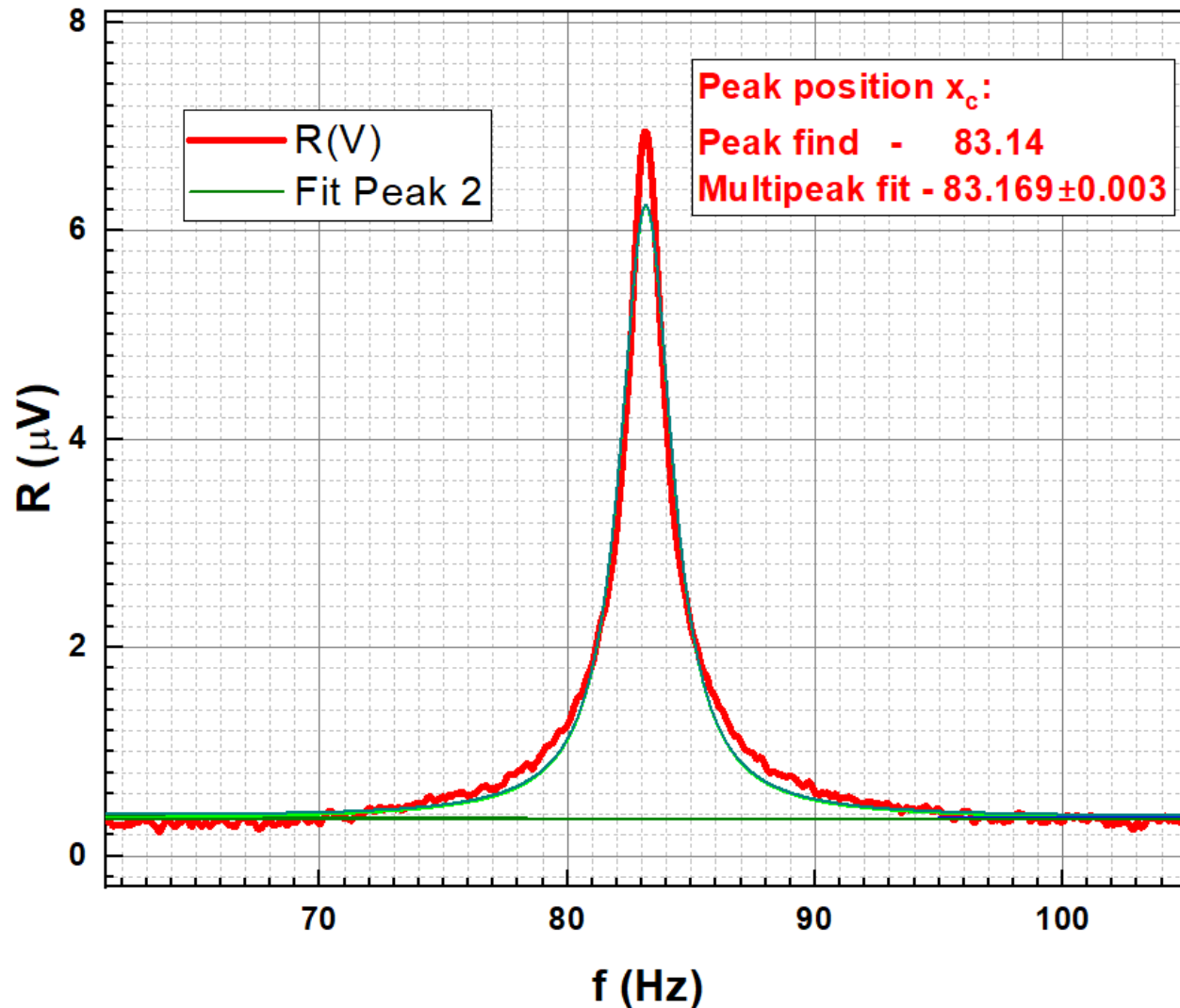
R(V)



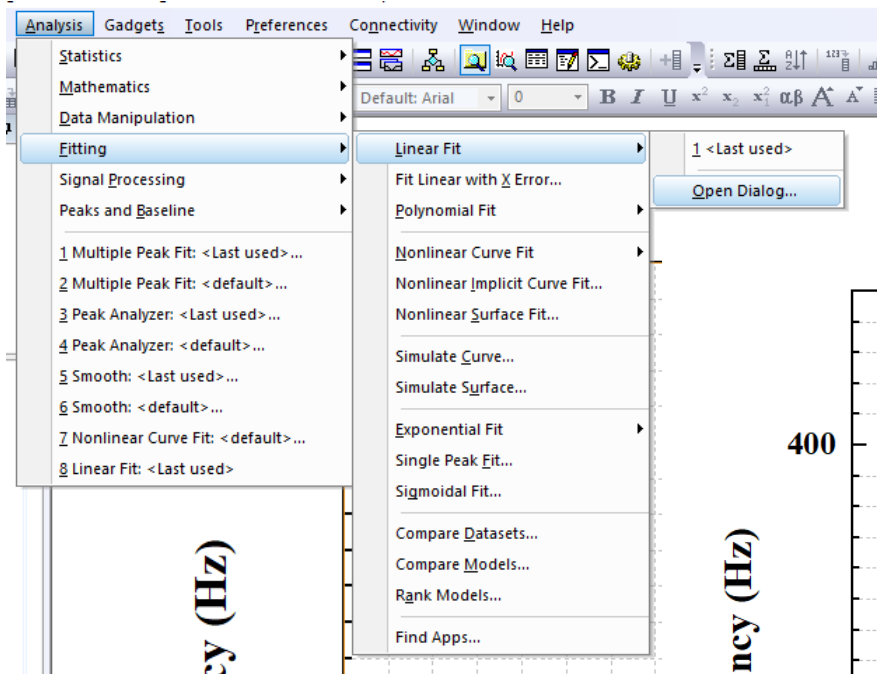
This layer contains all fitting results

Graphical presentation of data: Multiple peak Fit

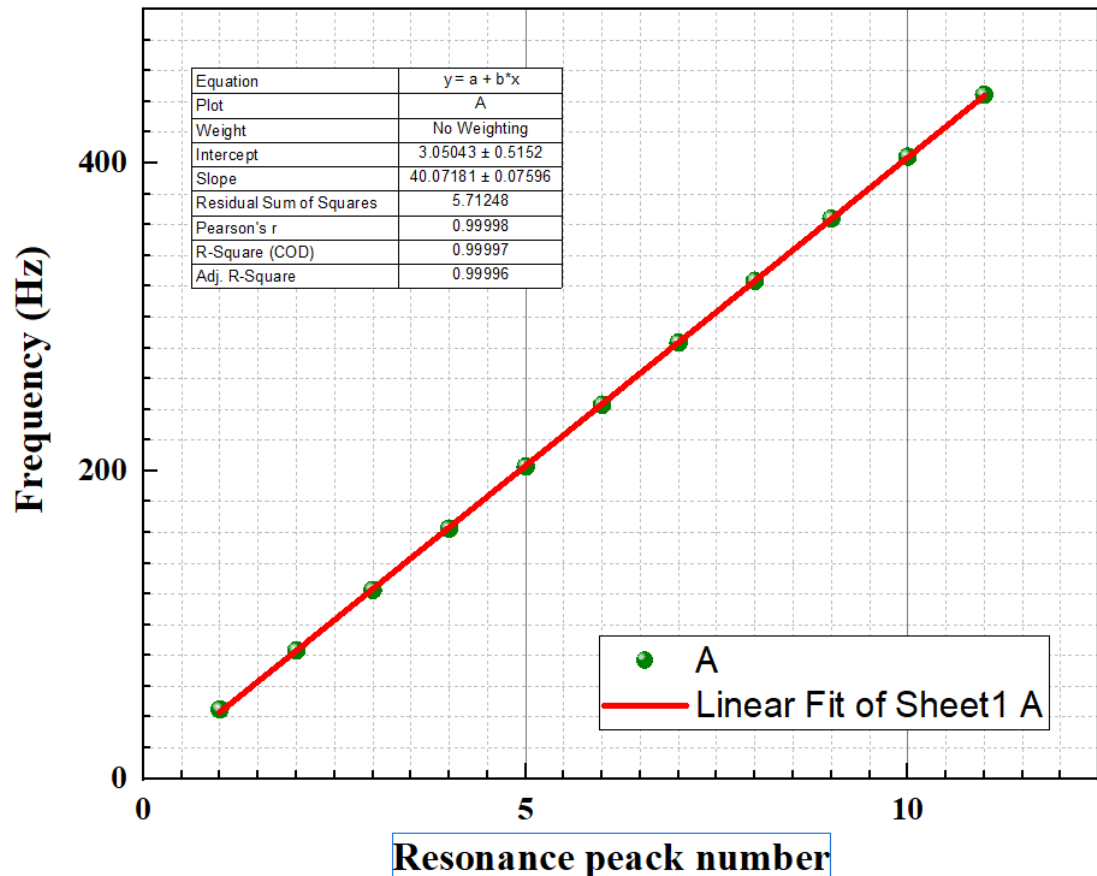
Comparing the results obtained by using
“Peak find” and “Multipeak fit” procedures



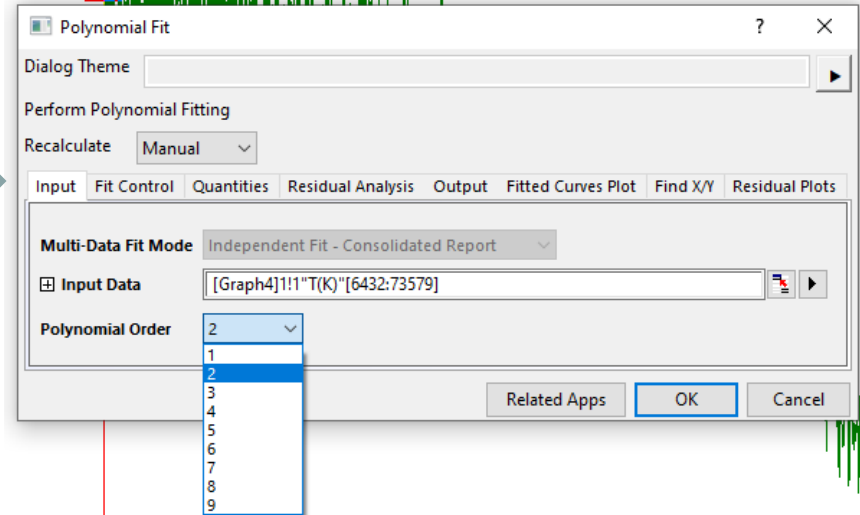
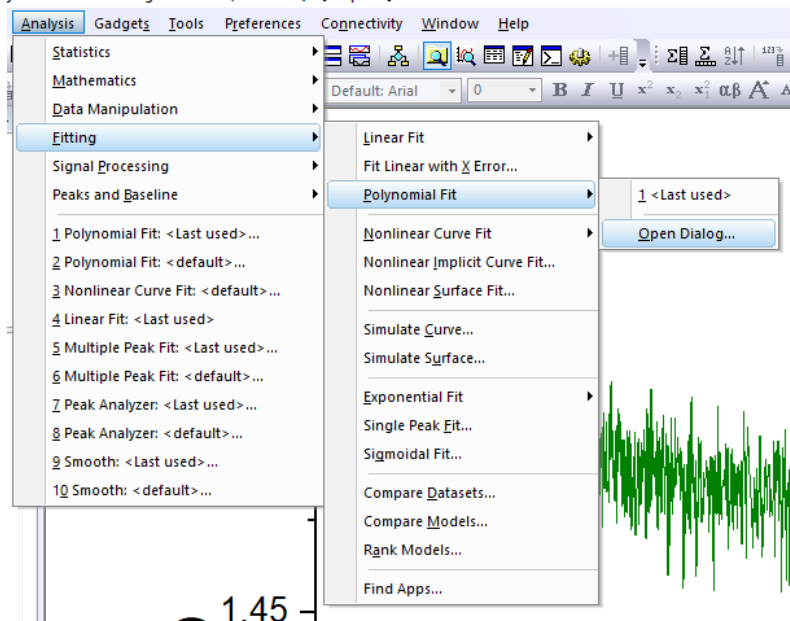
Graphical presentation of data: Fit Linear



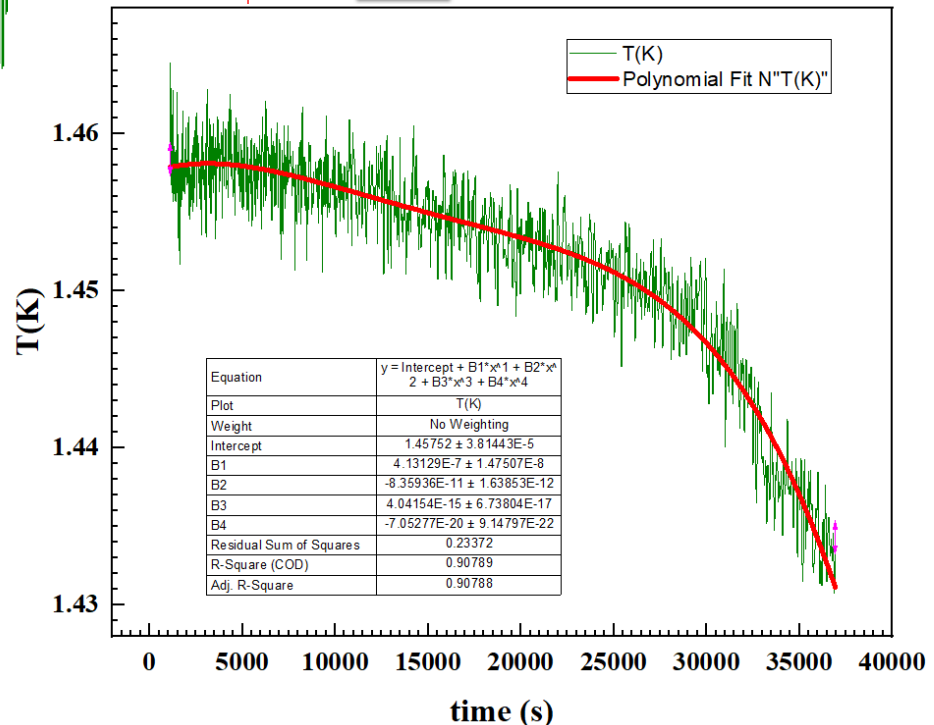
**Example of linear fitting.
Data from *Second sound*
experiment**



Graphical presentation of data: Fit Polynomial



Graph showing the temperature variations during the taking data with results of polynomial fit



Working with data: Worksheets. Statistics on Column

The screenshot displays a software interface with a data table and a context menu. The data table has columns A(X1) through H(Y1) and rows 1 through 32. The context menu is open over column C(Y1), showing options like Plot, Cut, Copy, Paste, Insert, Delete, Clear, Remove Links..., Set As, Set As Categorical, Set Column Values..., Fill with User Formula, Fill Column with, Sort Column, Sort Worksheet, Sort Columns by Label..., Normalize..., Frequency Count..., Statistics on Column, Hide/Unhide Columns, Move Columns, Format Cells..., Conditional Formatting, and Properties... The 'Statistics on Column' option is selected, and a dialog box titled 'Statistics on Columns (1/25/2023 14:52:11)' is open. The dialog box shows a table of descriptive statistics for column T(K).

	N total	Mean	Standard Deviation	Sum	Minimum	Median	Maximum
T(K)	94340	1.45169	0.02566	136952.32874	1.41557	1.45404	1.58361

The results could find here

FitPolynomial3 / DescStatsOnCols1 /

Working with data: Worksheets. “Set Column Values”

SecondSound2 - SecondSound_T2_16K VERY_BIG

	A(X)	B(Y)	C(Y)	D(Y)	E(Y)	F(Y)	G(Y)	H(Y)	I(Y)
Long Name	time (s)	T(K)				f (Hz)	X (V)	Y(V)	R(V)
Units									
Comments									
F(x)=									
Sparklines									
1	5.35899	1.571							
2	5.84299	1.571							
3	6.281	1.571							
4	6.71799	1.571							
5	7.172	1.571							
6	7.60899	1.571							
7	8.437	1.571							
8	8.906	1.571							
9	9.39	1.571							
10	9.85899	1.571							
11	10.297	1.571							
12	10.71799	1.571							
13	11.156	1.571							
14	11.59299	1.571							
15	12.031	1.571							
16	12.46799	1.571							
17	12.89	1.571							
18	13.312	1.571							
19	13.73399	1.571							

Set Column Values... Ctrl+Q

Plot

Copy

Copy Columns to...

Clear

Delete

Set As

Set As Categorical

Sort Worksheet

Statistics on Column

Hide/Unhide Columns

Properties...

SecondSound2 - SecondSound_T2_16K VERY_BIG

	A(X)	B(Y)	C(Y)	D(Y)	E(Y)	F(Y)	G(Y)	H(Y)	I(Y)
Long Name	time (s)	T(K)	P (mm)	TP (K)	Uac (V)	f (Hz)	X (V)	Y(V)	R(V)
Units									
Comments									
F(x)=		col(B)-273							
Sparklines									
1	5.35899	-271.42831	12.9419	1.8147	5	20	5.48318E-8	-2.53787E-8	6.042
2	5.84299	-271.42862	12.6291	1.80774	5	20.1	5.49483E-8	-2.52622E-8	6.047
3	6.281	-271.42847	13.82822	1.83378	5	20.2	5.55303E-8	-2.44473E-8	6.067
4	6.71799	-271.42816	15.1315	1.86029	5	20.3	5.49483E-8	-2.32832E-8	5.967
5	7.172	-271.42831	13.0983	1.81814	5	20.4	5.39005E-8	-2.20026E-8	5.821
6	7.60899	-271.42831	14.6623	1.85095	5	20.5	5.42498E-8	-2.00235E-8	5.782
7	8.437	-271.42831	15.1315	1.86029	5	20.6	5.57632E-8	-1.89758E-8	5.890
8	8.906	-271.42847	12.42062	1.80303	5	20.7	5.77422E-8	-1.76952E-8	6.039
9	9.39	-271.42862	13.82822	1.83378	5	20.8	6.00708E-8	-1.64147E-8	6.227
10	9.85899	-271.42831	16.33062	1.88327	5	20.9	6.27483E-8	-1.50177E-8	6.452
11	10.297	-271.42831	16.5391	1.88714	5	21	6.53095E-8	-1.32714E-8	6.664
12	10.71799	-271.42816	14.87078	1.85513	5	21.1	6.76378E-8	-1.09431E-8	6.851
13	11.156	-271.42831	11.89918	1.791	5	21.2	7.01989E-8	-8.84762E-9	7.075
14	11.59299	-271.42831	13.4111	1.82492	5	21.3	7.24108E-8	-8.03271E-9	7.28
15	12.031	-271.42831	15.80918	1.87343	5	21.4	7.39242E-8	-8.38196E-9	7.439
16	12.46799	-271.42831	16.12198	1.87936	5	21.5	7.45063E-8	-9.31328E-9	7.508
17	12.89	-271.42831	14.6623	1.85095	5	21.6	7.4157E-8	-1.04774E-8	7.489
18	13.312	-271.42847	14.3495	1.8446	5	21.7	7.36914E-8	-1.14088E-8	7.456
19	13.73399	-271.42831	13.4111	1.82492	5	21.8	7.32257E-8	-1.22237E-8	7.42

Set Values - [SecondSound2]"SecondSound_T2_16K VE...

Formula wcol(I) Col(A) Function Variables Options

Row(i): From <auto> To <auto>

Col(B) =

col (B) -273

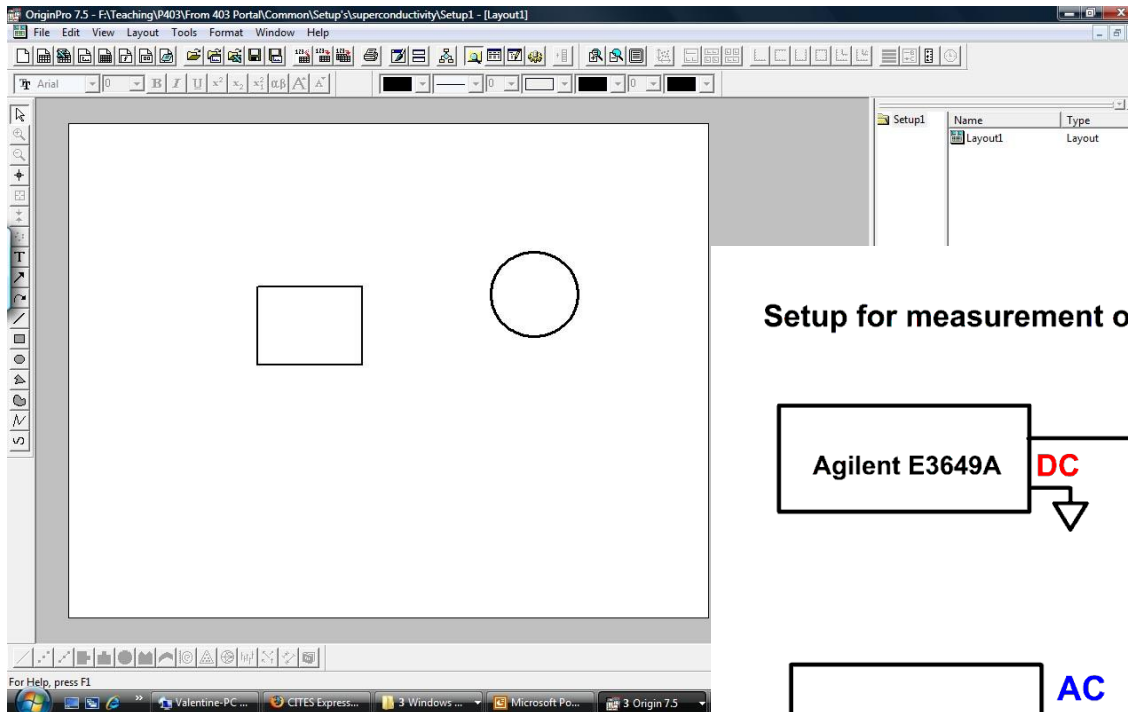
Recalculate Auto

OK Cancel Apply

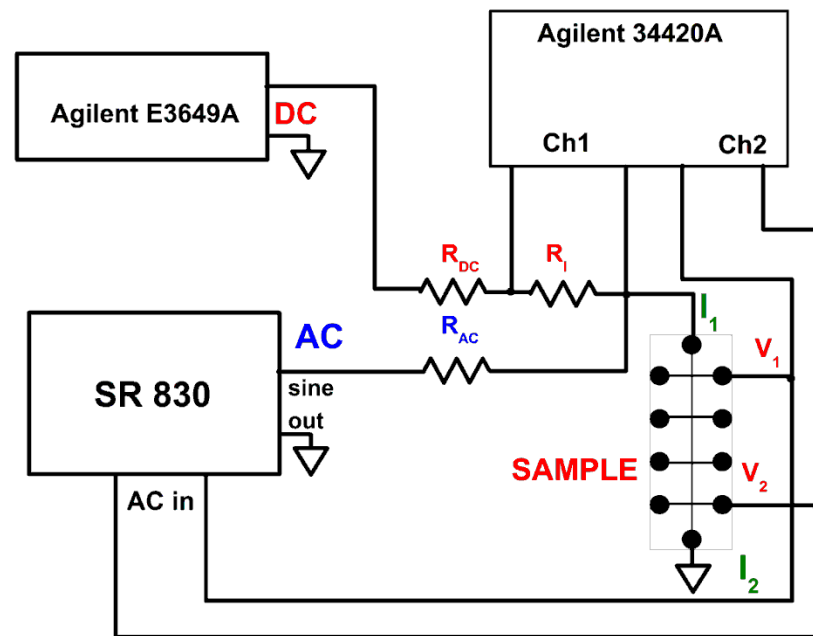
Before Formula Scripts

Enter LabTalk script to define variables or execute calculation before formula.

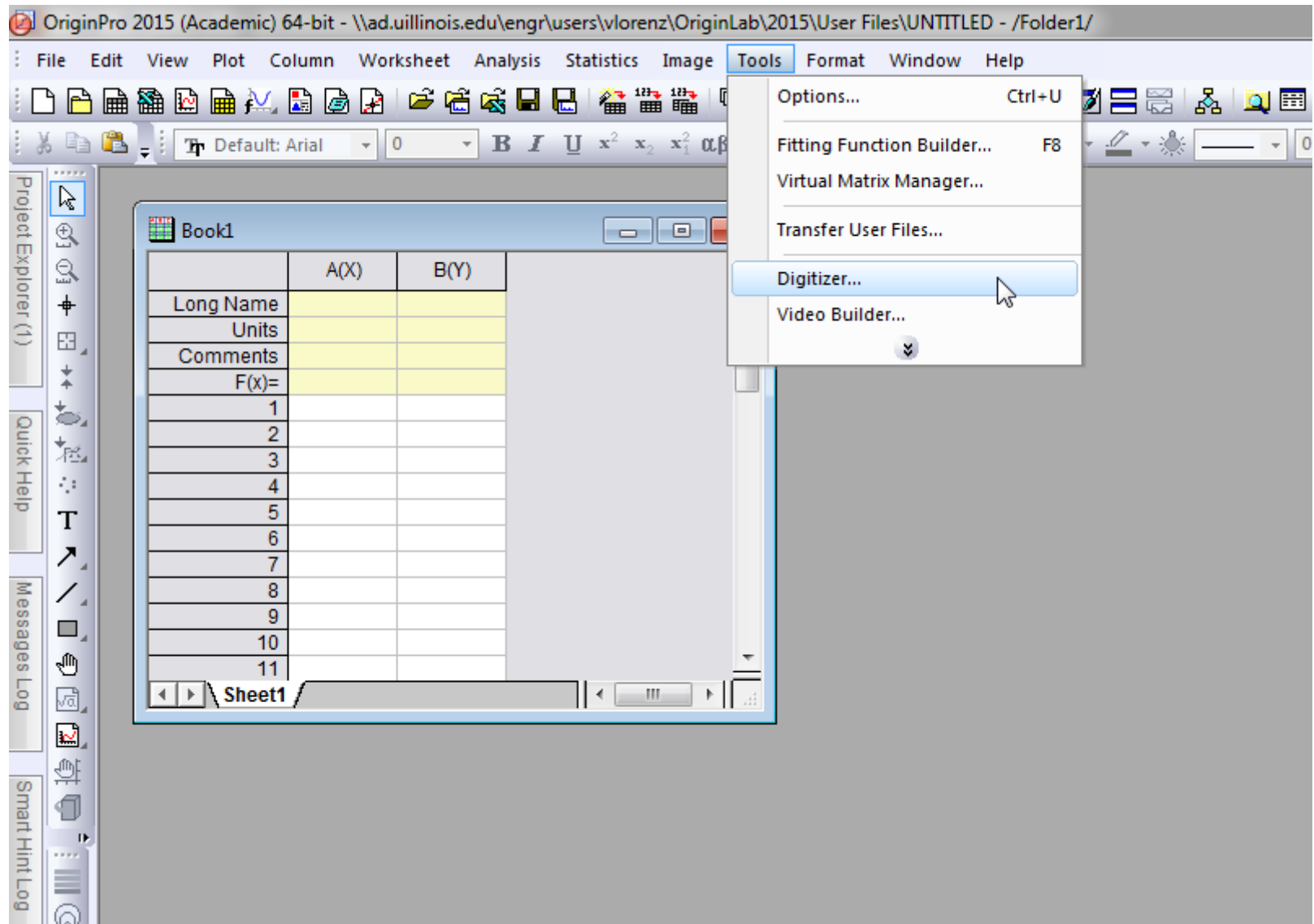
Layouts



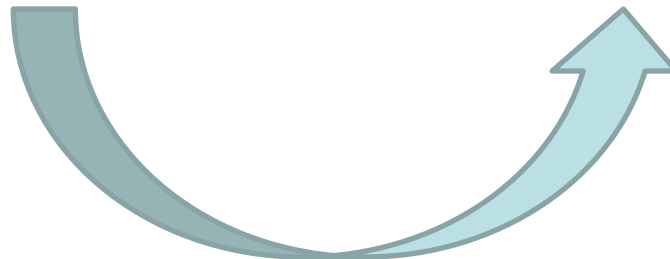
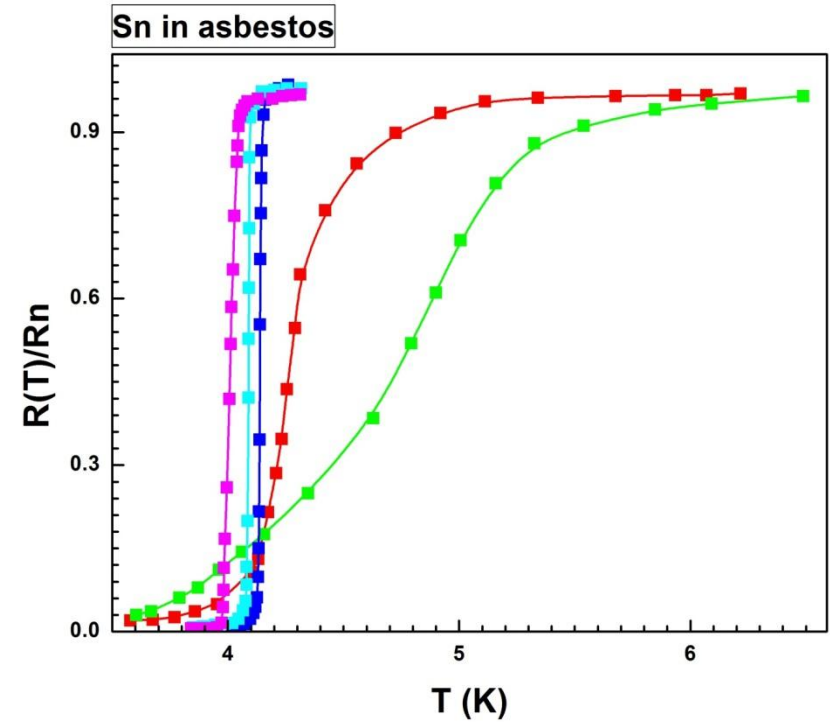
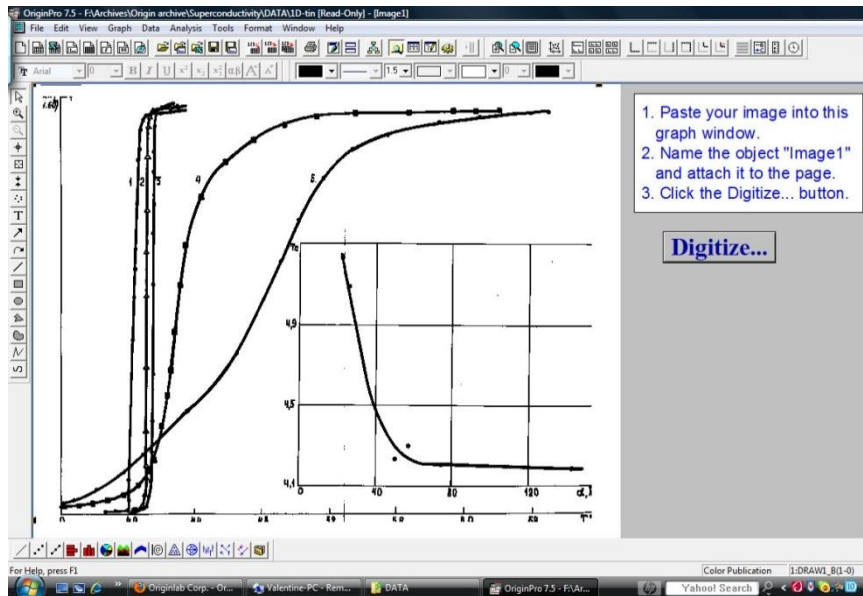
Setup for measurement of s/c properties



Custom tools



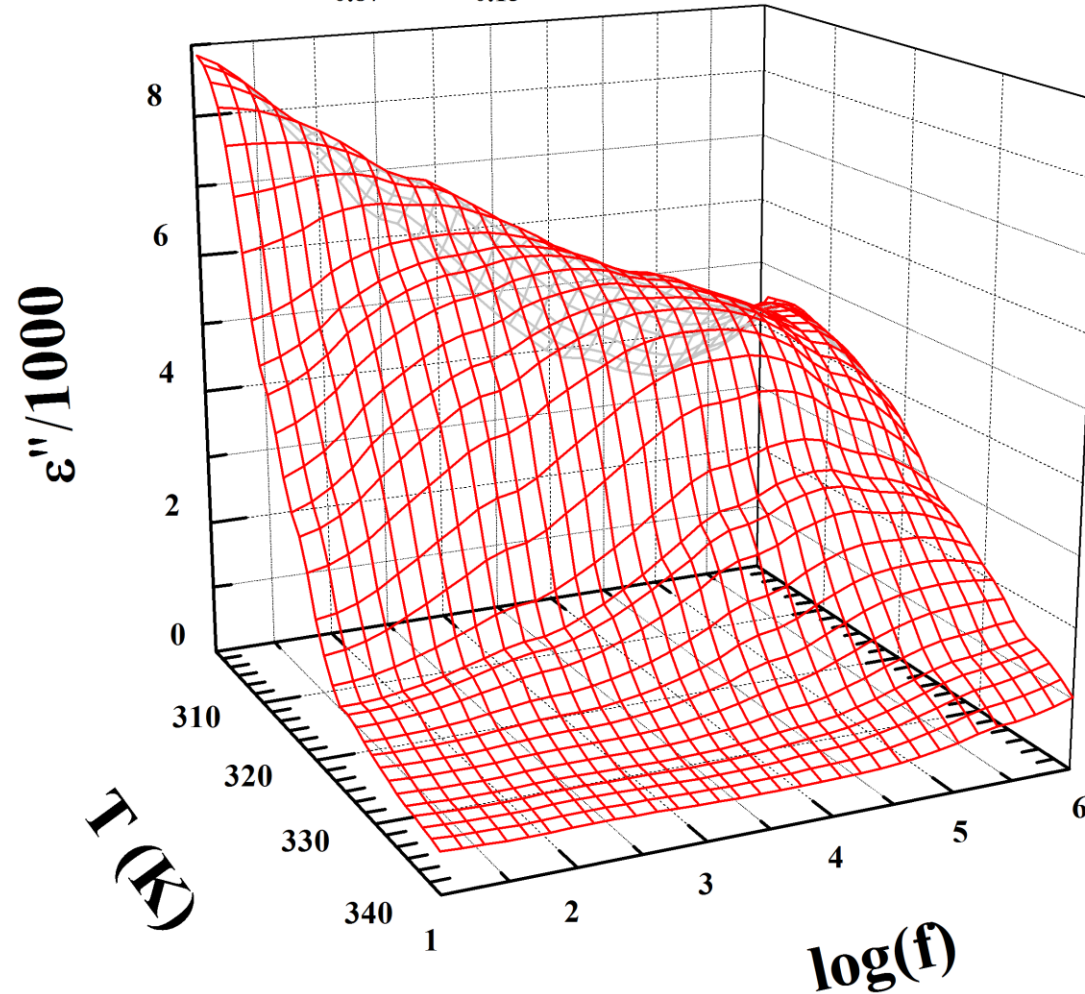
Using digitizer script



Example Origin graphs

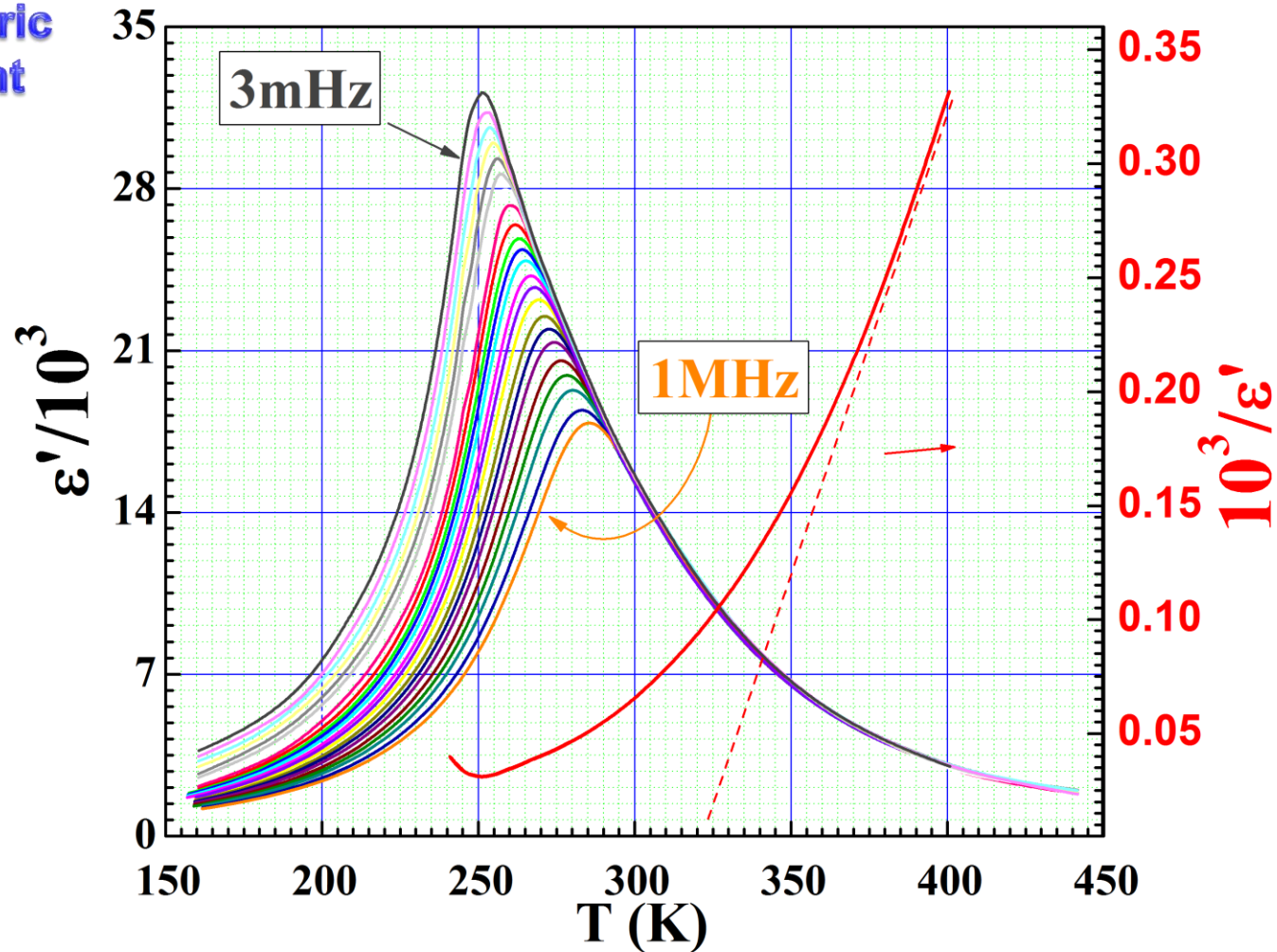
(PMN)_{0.87}(PT)_{0.13}, single crystal

Ferroelectric
Experiment



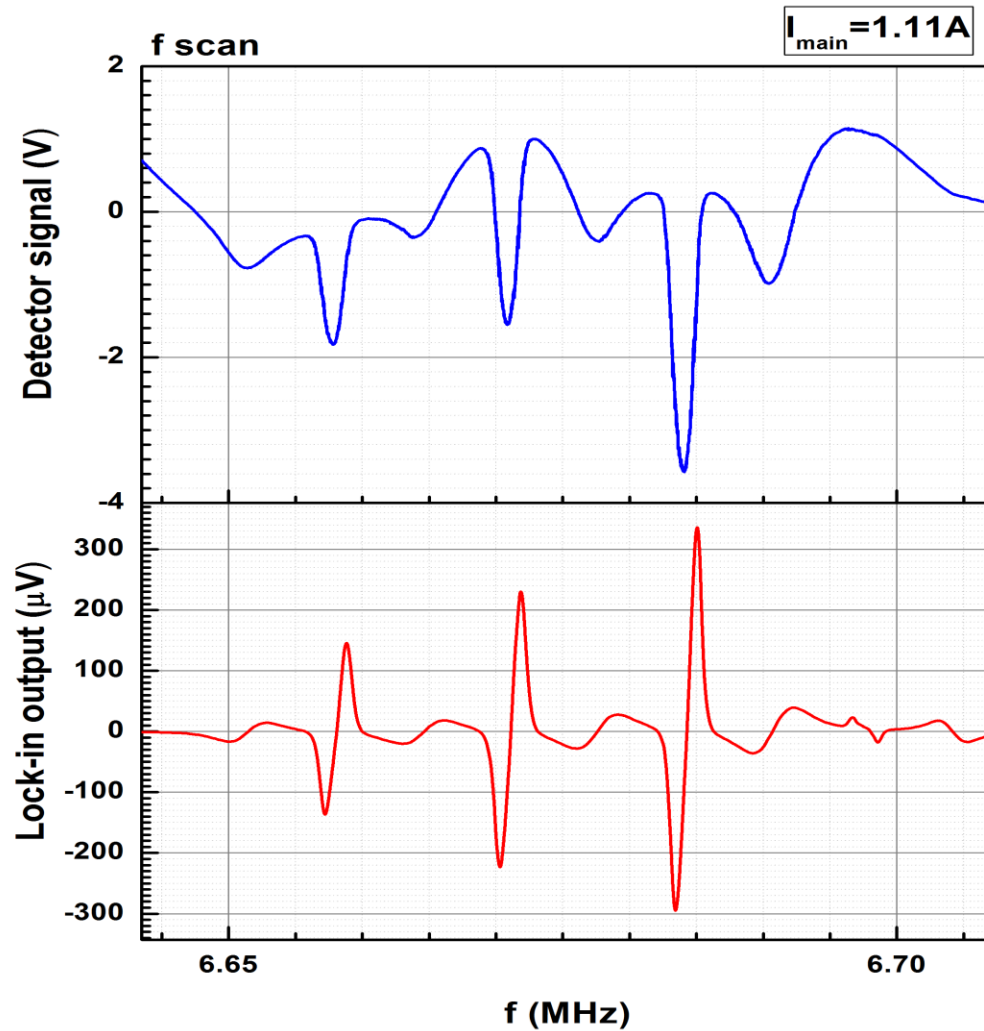
Example Origin graphs

Ferroelectric
Experiment



Example Origin graphs

Optical
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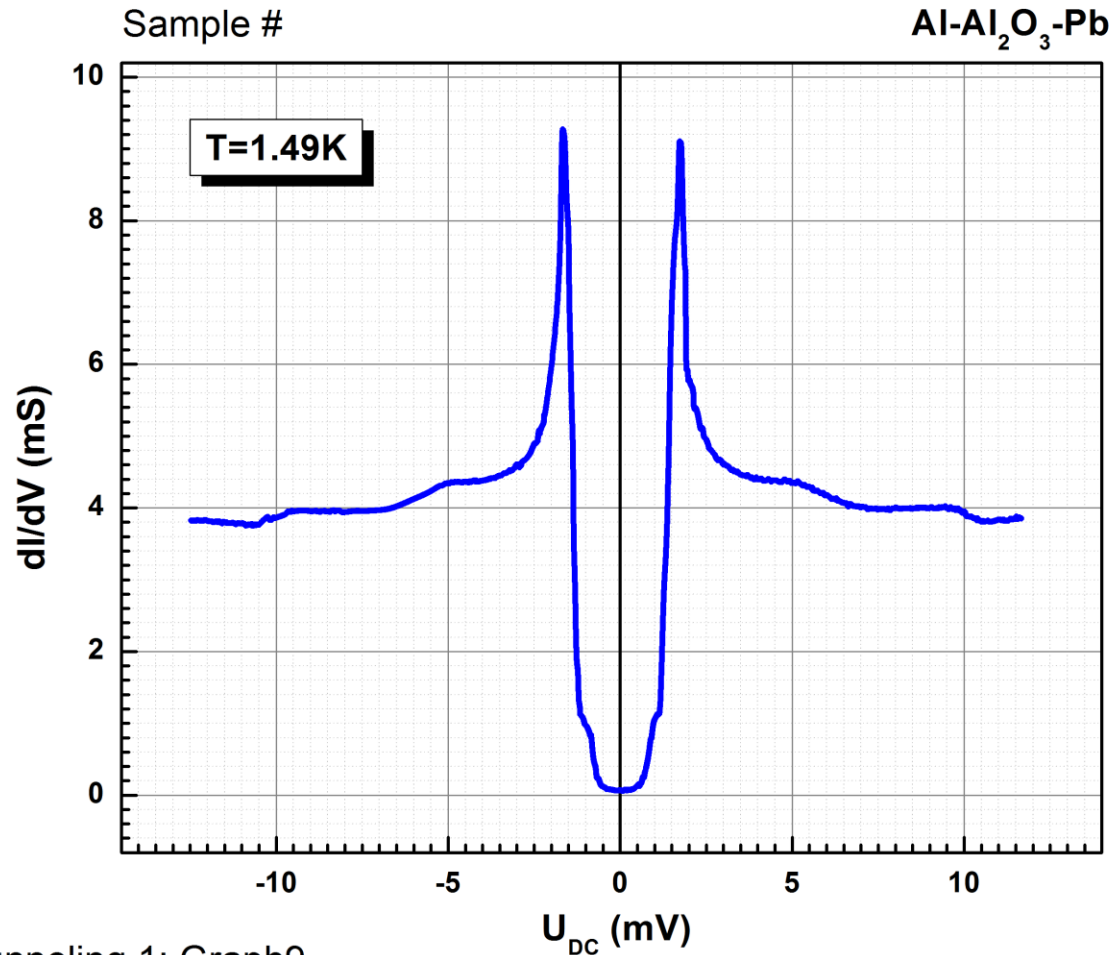


Mapping 0.5-2.5A from March 1st 2012: Graph7



Example Origin graphs

Tunneling
Experiment



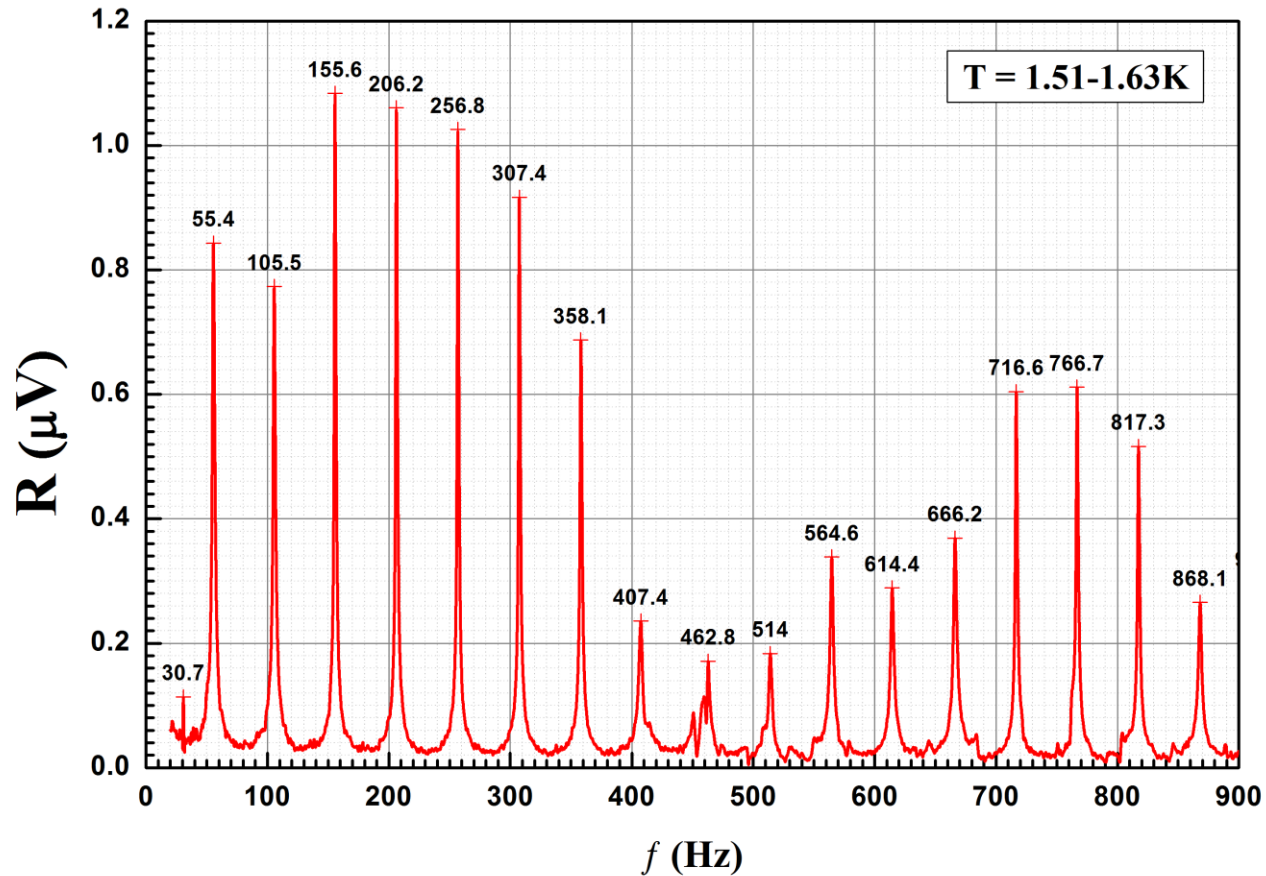
Tunneling 1: Graph9

Sample n2 run8 zoom temp 1.55K



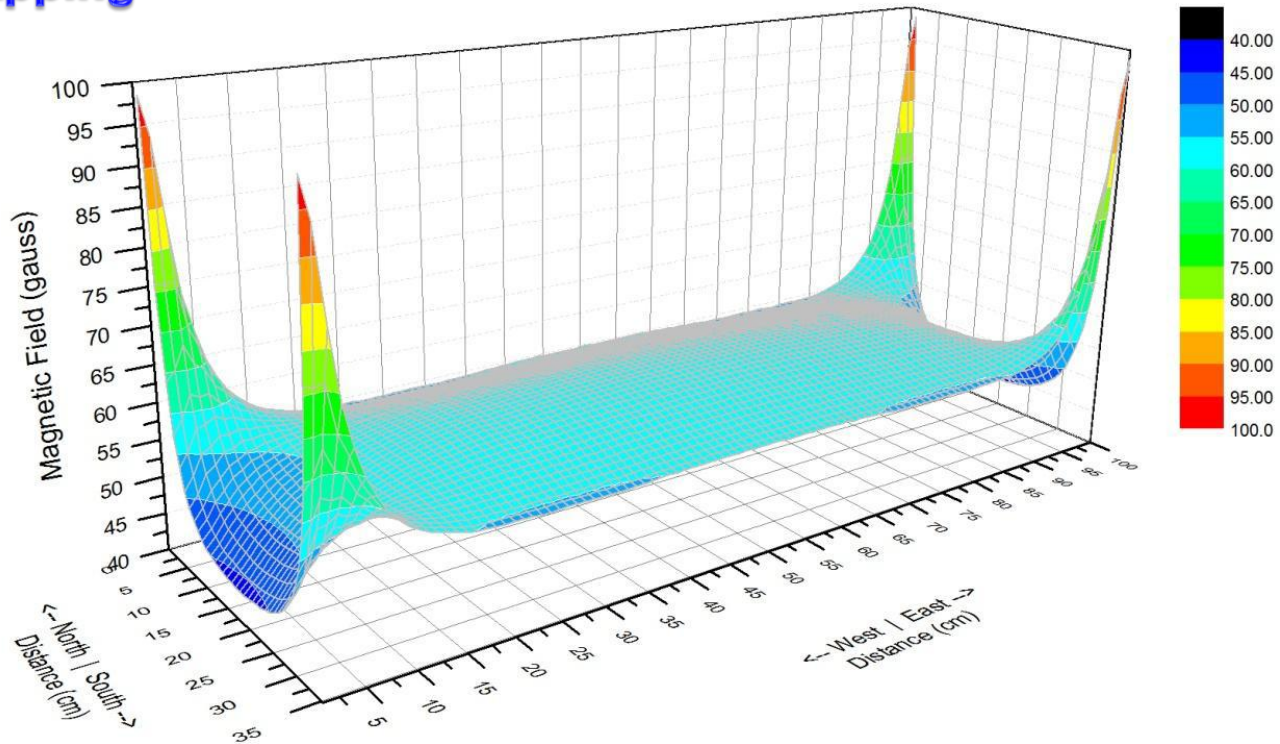
Example Origin graphs

Second
sound



Example Origin graphs

Magnet mapping



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Running Origin remotely

Here is another way to run Origin without needing to install it on your own computer (e.g. if you have a Mac, which is not supported by Origin):

1. Connect to VPN
2. Install and run Citrix:
<http://it.engineering.illinois.edu/ews/lab-information/remote-connections/connecting-citrix>
3. Click on "Apps" and then "Origin"
4. To open and save files, use your EWS folder at this address: "smb://ad.uillinois.edu/engr-ews/[Your netID]"



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App

★★★★★

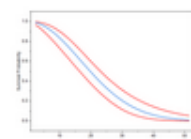
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Updated on: 11/19/2025

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App

★★★★★

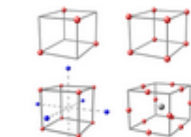
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App

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