



bio-technne[®]

COMPASS FOR SIMPLE WESTERN 6.0.0

升级您的数字化 WESTERN 结果

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PROTEIN SIMPLE -- 创新蛋白质分析技术专家



Wes/Jess/Abby/Peggy Sue
全自动 Western



Milo
单细胞 Western



Ella
微流控全自动 ELISA



FluorChem
多功能成像

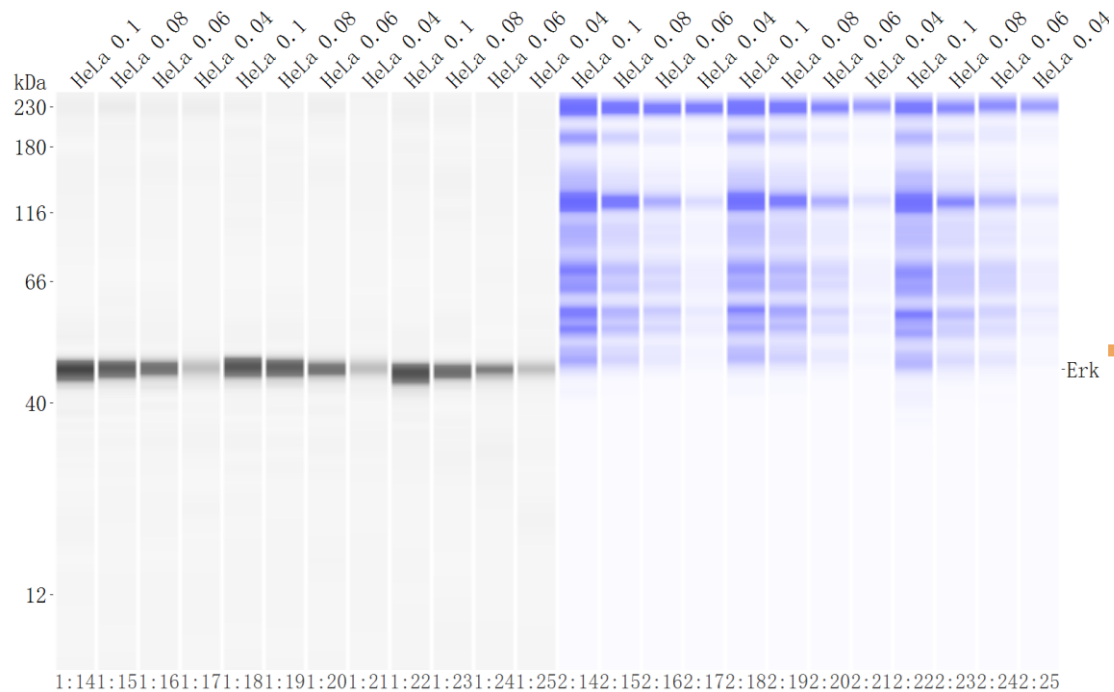


MFI
微流成像颗粒计数分类仪



Maurice
CE-SDS + icIEF 双功能 CE

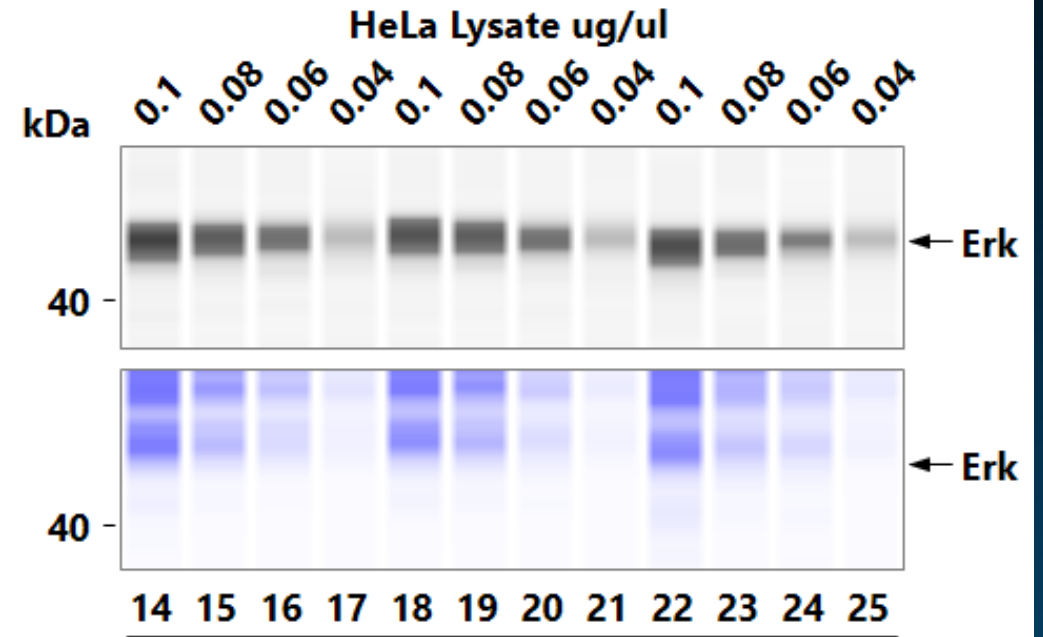
能否直接注释结果?



?



Linearity of Total Protein Assay



Total Protein

HeLa/Erk with RePlex and TP

Lane_annotation_training_file.cbz

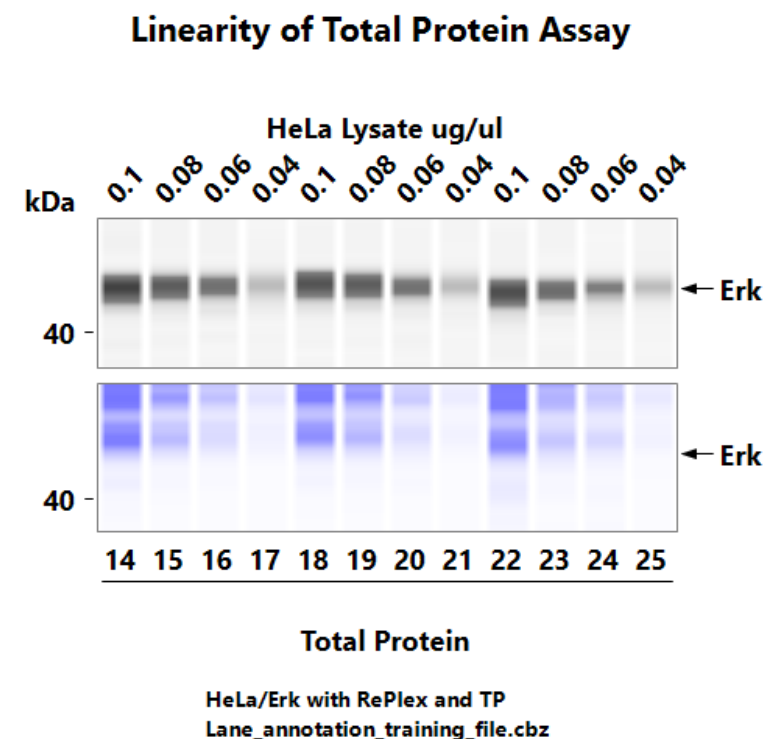
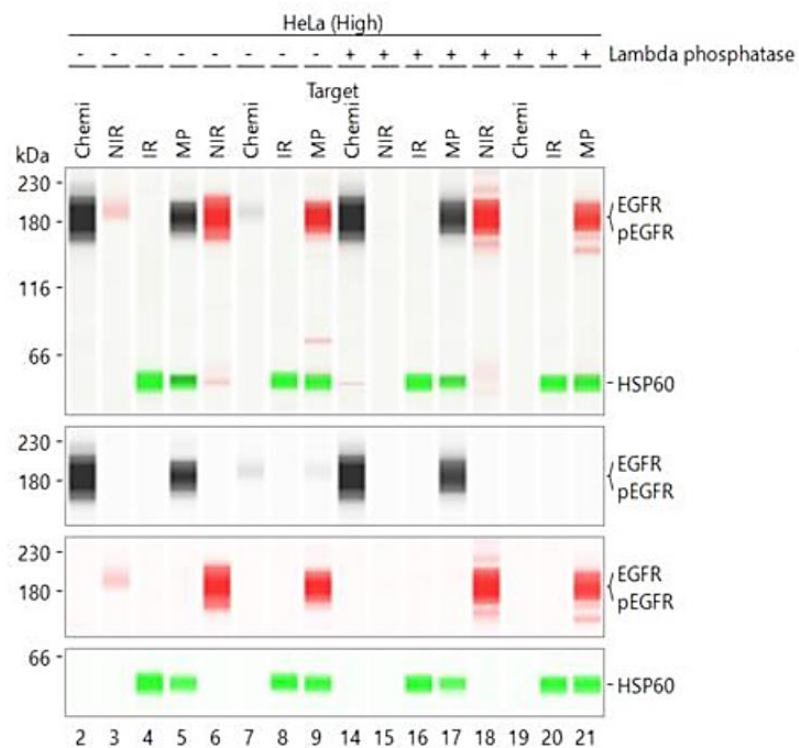
COMPASS 6.0.0 版本

适用于 WES/JESS/ABBY



COMPASS (V.6.0.0) 主要更新

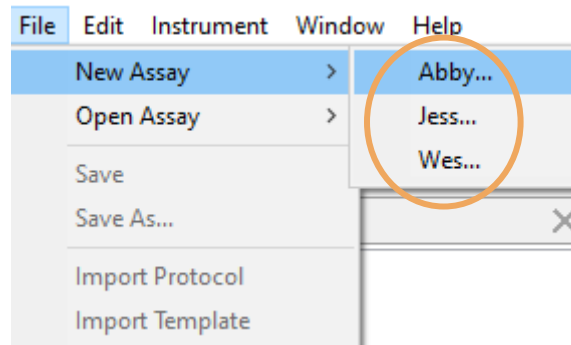
• 添加了Lane 结果注释



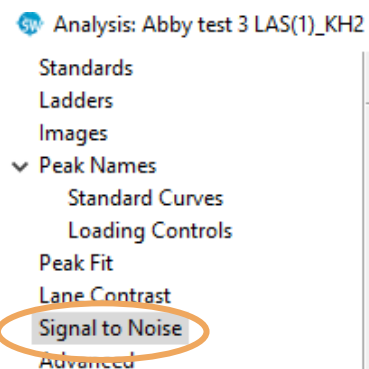
COMPASS (V.6.0.0) 主要更新

• 添加了Lane 结果注释

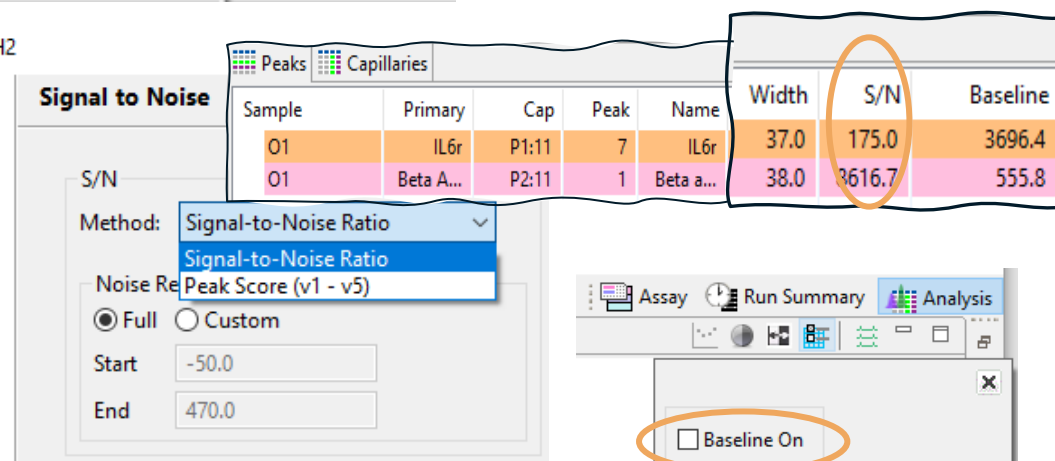
- “New Assay” 仅适用于 (Abby/Jess/Wes)



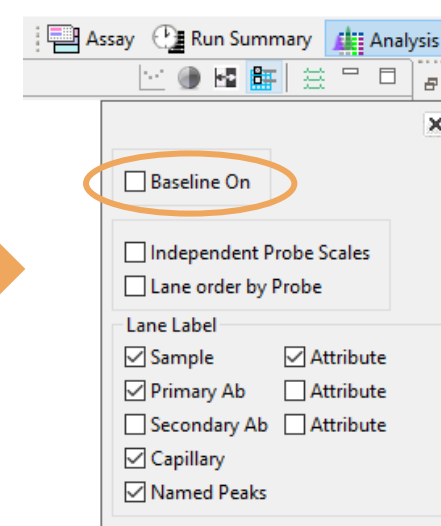
- 采用了新的信噪比 (S/N) 分析方法



- 在 Graph 界面进行的编辑已可以保存，不用每次打开再重新编辑



- 基线校正的选项移动到 Lane 界面的 Graph Options内

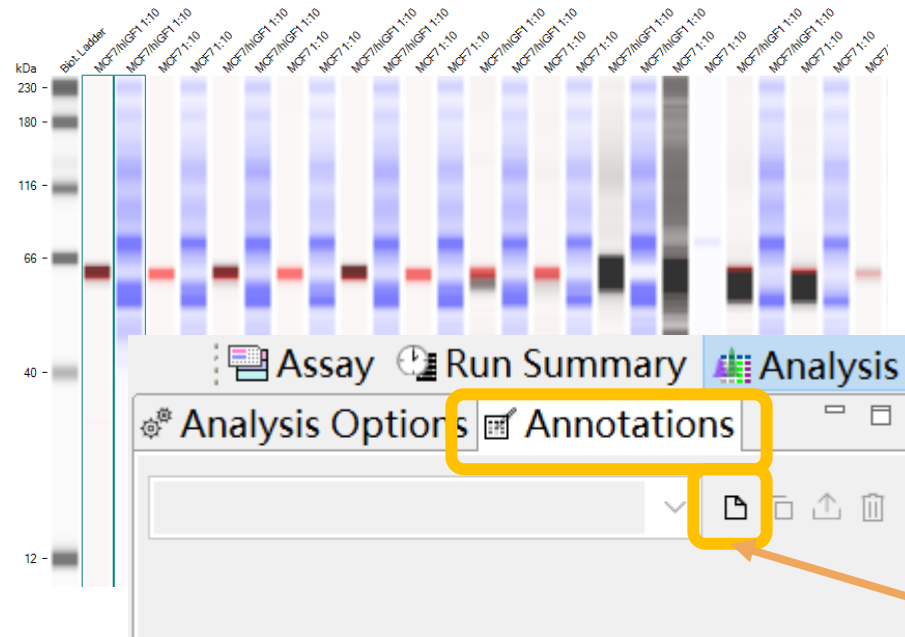


- 支持多种格式保存结果 (TIF/JPG/PNG)

*兼容模式- Compass 6.0 版本能打开以前Jess/Wes的文件

LANE 注释

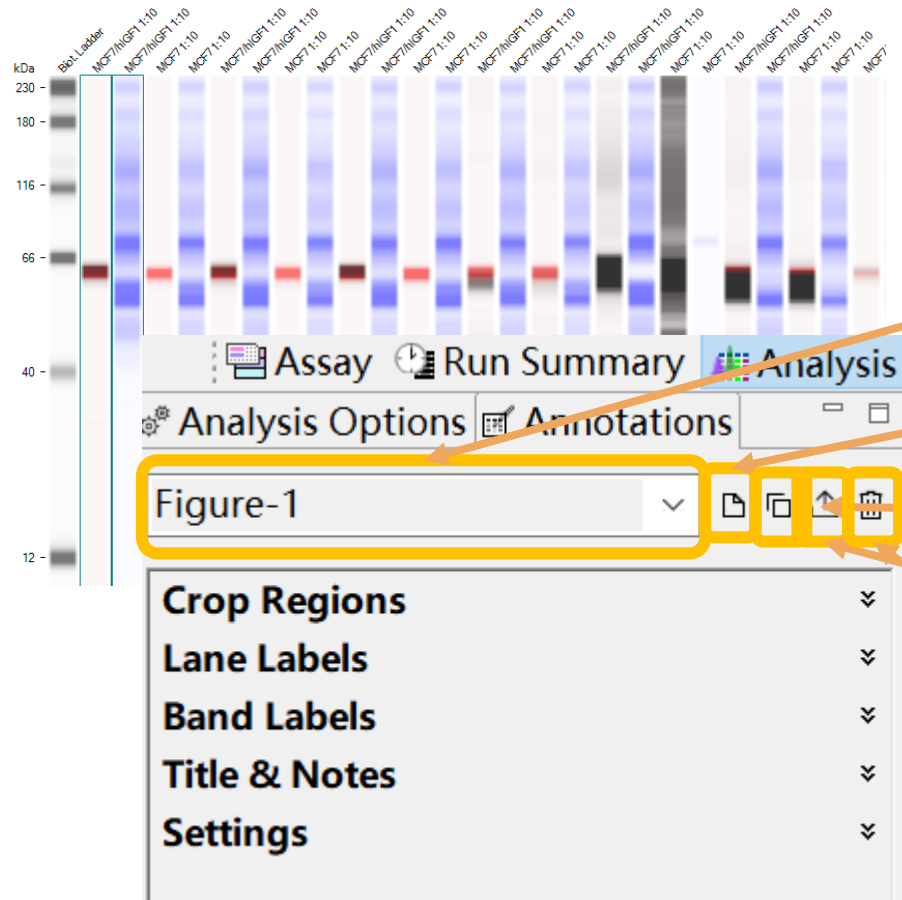
只需在 COMPASS 内即可进行注释



新建注释

LANE 注释

只需在 COMPASS 内即可进行注释



注释结果名, 单击可更改

新建注释

复制注释

导出注释结果 (TIF/PNG/JPG)

删除该注释结果

LANE 注释 – CROP

只需在 COMPASS 内即可进行注释

Figure-1

Crop Regions

Lane Labels

Band Labels

Title & Notes

Settings

Crop Regions

Caps 3,7,11,2,6

MW Range 39-213

Channel Contrast CHEMI P1,CHEMI P2

自定义分子量范围

自定义通道

自定义对比度

Re-crop

Custom Contrast

Custom Contrast

CHEMI P1

CHEMI P2

LANE 注释 – LANE LABELS

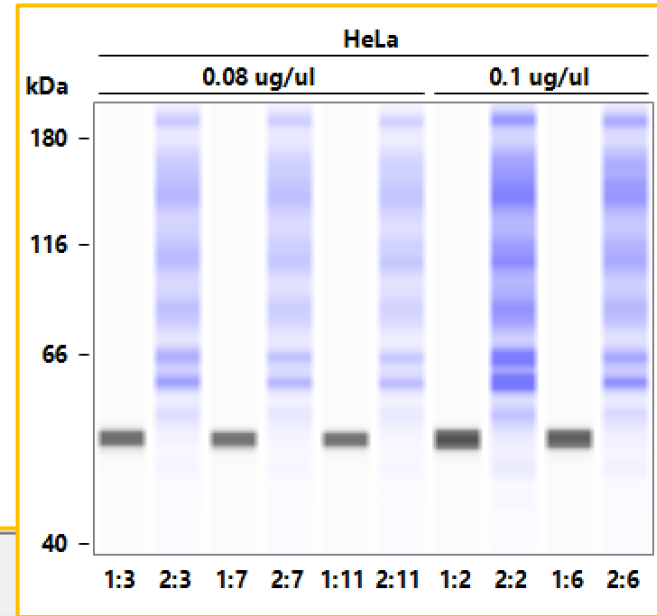
只需在 COMPASS 内即可进行注释

Crop Regions

Lane Labels

Group	SampleGroup
Link to	Sample
Style	Sample
	Sample Attribute
	Primary
	Primary Attribute
	Secondary
	Secondary Attribute
1	Probe:Capillary
2	None
3	None
4	HeLa
5	HeLa

Lane 标签可使用 Assay 界面实验设计, 也可以自己重新编辑



Crop Regions

Lane Labels

Group	SampleGroup
Link to	Sample
Style	---
	≡
	↑
	⋮
	A
	↻

Lane Label
1 HeLa
2 HeLa
3 HeLa
4 HeLa
5 HeLa
6 HeLa
7 HeLa
8 HeLa
9 HeLa
10 HeLa

自定义标签位置, 分组, 旋转角度等

合并标签

标签位置

下划线/上划线

Style

标签换行

分组标签位置

旋转标签

LANE 注释 – BANDS

只需在 COMPASS 内即可进行注释

Crop Regions

Lane Labels

Band Labels

Group

Link to

Style

Band

Label

条带标签可使用已命名的目的峰也可以重新编辑

1 0.5 0.25 [Lysate] ug/ul

Control Drug 3784 Control Drug 3784 Control Drug 3784 Sample

kDa

116

66

40

IL17ra

IL4ra

IL6r

McFly Topo-isomerase

p-1.21 Gigawatt receptor

1.21 Gigawatt receptor

Beta actin

自定义条带位置和展示形式

Crop Regions

Lane Labels

Band Labels

Group McFly

Link to None

Style

Band Label

McFly Topo-isomerase

MW (kDa)

61

Title & Notes

Settings

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LANE 注释

只需在 COMPASS 内即可进行注释

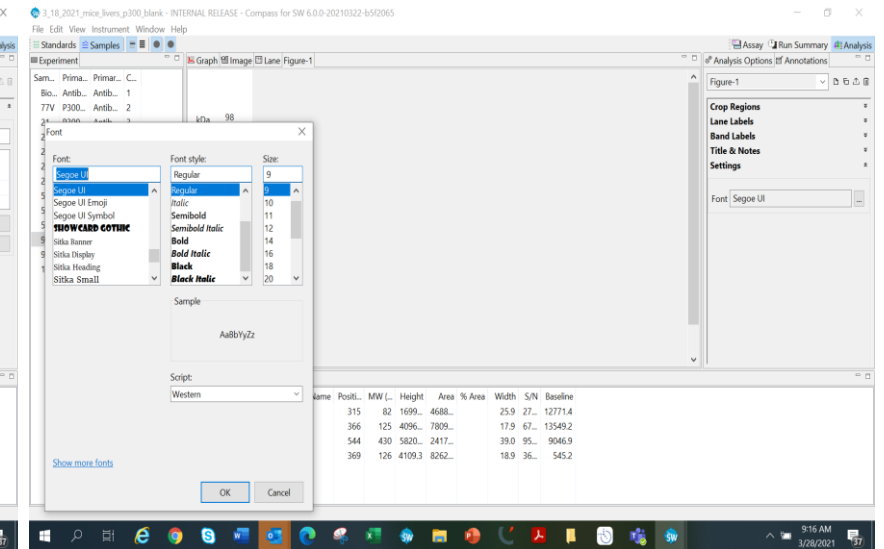
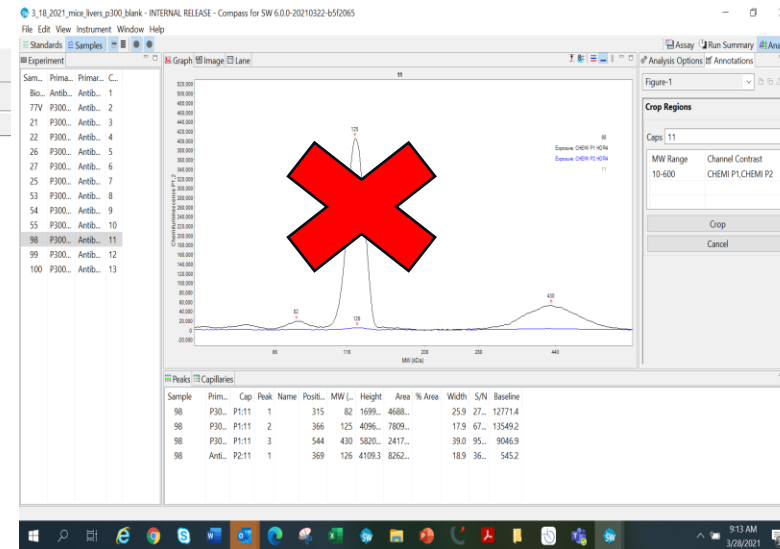
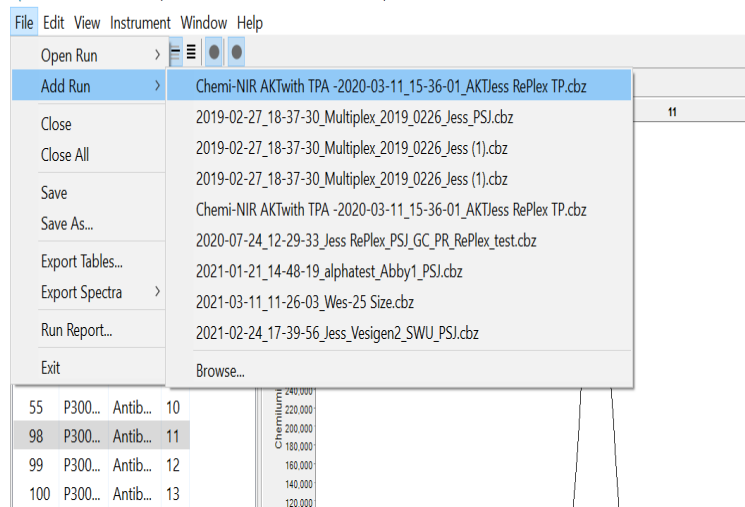


LANE 注释功能目前的局限

只需在 COMPASS 内即可进行注释

- **Add Run** – 同时打开多个运行文件结果不能使用 Lane 注释功能
- **Access Control** – 受管控的运行文件不能使用 Lane 注释功能
- **Graph view** – 不能注释电泳图，只能注释泳道图
- **Fonts** – Lane 工具暂不支持所有类型的字体

3_18_2021_mice_livers_p300_blank - INTERNAL RELEASE - Compass for SW 6.0.0-20210322-b5f2065

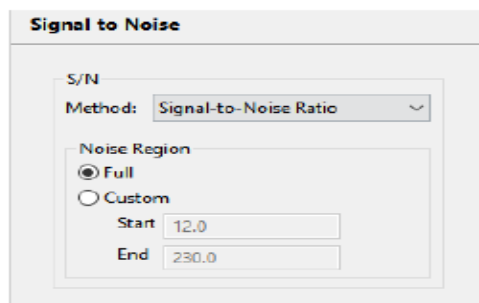


Signal-to-Noise Ratio

信噪比的计算遵循USP/NF(美国药典/国家处方)法规。这是在Simple Western 的 Compass 6.0及更高版本的中生成的运行数据的默认选择。

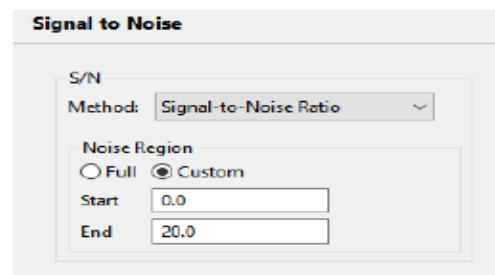
择此选项时，可以通过设置以下参数来选择用于识别最佳噪声采样的数据区域：

- **Full** — 为噪声区域选择沿x轴(kDa)的整个数据范围。使用的默认范围将是运行数据的大小范围:2-40、12-230或66-440 kDa。



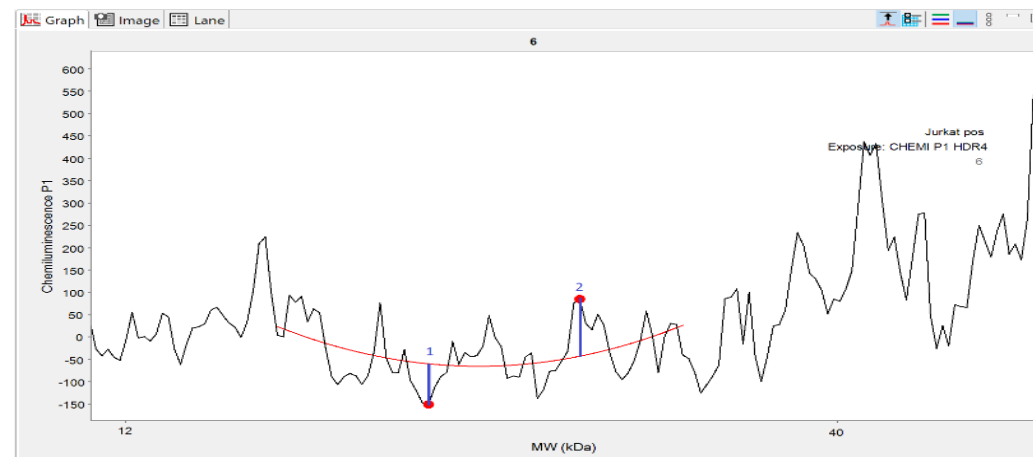
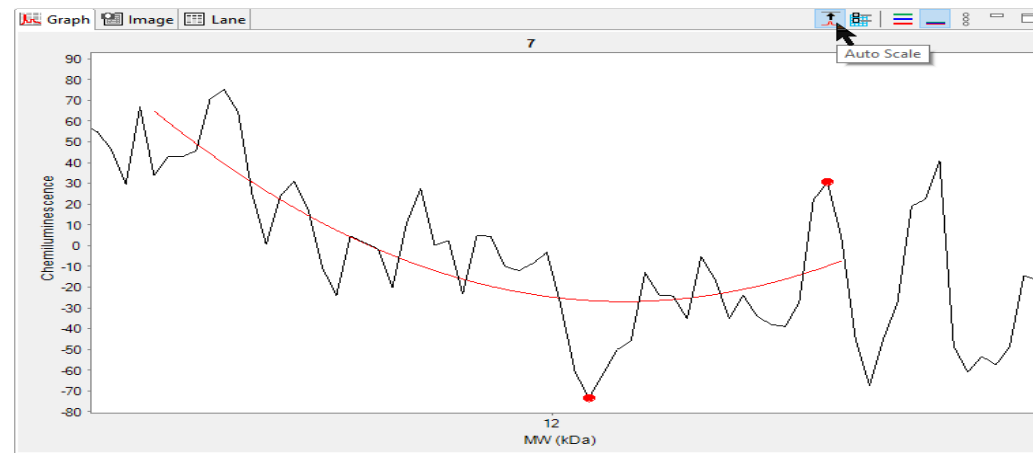
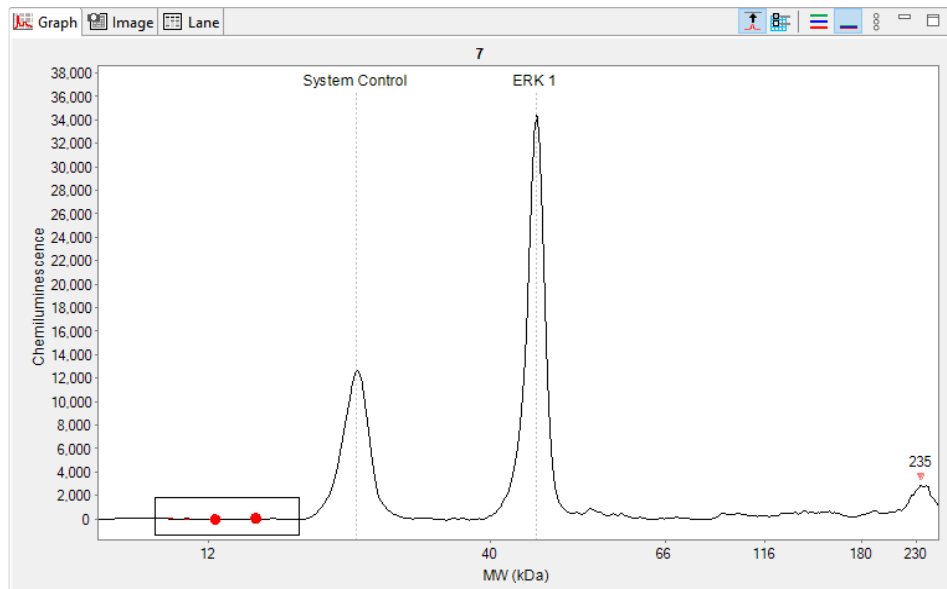
The screenshot shows the 'Signal to Noise' dialog box. The 'S/N' section has 'Method' set to 'Signal-to-Noise Ratio'. Under the 'Noise Region' section, the 'Full' radio button is selected. The 'Start' field is set to 12.0 and the 'End' field is set to 230.0.

- **Custom** — 允许您沿着x轴(以kDa为单位)设置数据范围，以缩小用于从信号到噪声计算的搜索区域。要使用此选项，请输入Start 和 End 值。



The screenshot shows the 'Signal to Noise' dialog box. The 'S/N' section has 'Method' set to 'Signal-to-Noise Ratio'. Under the 'Noise Region' section, the 'Custom' radio button is selected. The 'Start' field is set to 0.0 and the 'End' field is set to 20.0.

现在信噪比是怎么计算的



$h = \text{蓝线 1 长度} + \text{蓝线 2 长度}$

$S/N = 2.0 * \text{峰高} / h$

S/N
Method: Signal-to-Noise R ▾
Noise Region
 Full
 Custom
Start
End

S/N
Method: Signal-to-Noise R ▾
Noise Region
 Full
 Custom
Start
End

基线校正默认打开

Abby_annotation_training_file - Compass for SW

File Edit View Instrument Window Help

Standards Samples

Experiment

Sam...	Prim...	Seco...	C...
Bio...	Anti...	Strep...	1
MB...	GFA...	GAR...	2
MB...	GFA...	GAR...	3
MB...	GFA...	GAR...	4
MB...	GFA...	GAR...	5
MB...	GFA...	GAR...	6
MB...	GFA...	GAR...	7
MB...	GFA...	GAR...	8
MB...	GFA...	GAR...	9
MB...	GFA...	GAR...	10
MB...	GFA...	GAR...	11
MB...	GFA...	GAR...	12
MB...	GFA...	GAR...	13
He...	Erk1	GAR...	14
He...	Erk1	GAR...	15
He...	Erk1	GAR...	16
He...	Erk1	GAR...	17
He...	Erk1	GAR...	18
He...	Erk1	GAR...	19
He...	Erk1	GAR...	20
He...	Erk1	GAR...	21
He...	Erk1	GAR...	22
He...	Erk1	GAR...	23
He...	Erk1	GAR...	24
He...	Erk1	GAR...	25

Graph Image Lane Figure-1

Analysis Options

- Baseline On
- Independent Probe Scales
- Lane order by Probe
- Lane Label
 - Sample Attribute
 - Primary Ab Attribute
 - Secondary Ab Attribute
 - Capillary
 - Named Peaks

Peaks Capillaries

Sample	Prim...	Cap	Peak	Name	Positi...	MW (...)	Height	Area	% Area	Corr. ...	Width	S/N	Baseline
HeLa 0.1	Erk1	P1:14	1	Erk	369	47	1620...	1750...	100.0	1750...	10.1	22...	1402.1
HeLa 0....	Erk1	P1:15	1	Erk	369	47	1183...	1259...	100.0	1746...	10.0	15...	1211.7
HeLa 0....	Erk1	P1:16	1	Erk	370	47	8600.2	9460...	100.0	1643...	10.3	11...	1077.0
HeLa 0....	Erk1	P1:17	1	Erk	370	47	4008.5	5364...	100.0	1340...	12.6	63.3	1048.9
HeLa 0.1	Erk1	P1:18	1	Erk	370	48	1326...	1479...	100.0	1653...	10.5	16...	1054.7
HeLa 0....	Erk1	P1:19	1	Erk	369	47	1161...	1284...	100.0	1700...	10.4	14...	1044.1
HeLa 0....	Erk1	P1:20	1	Erk	371	47	8320.0	8777...	100.0	1612...	9.9	12...	981.0

公众号报修流程



PROTEINSIMPLE SIMPLE YOUR PROTEIN ANALYSIS



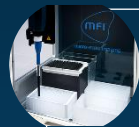
4000-863-973



FluorChem
• Simple Imaging



Ella
• Simple ELISA



MFI
• Simple Particle Analysis



Jess/Wes/Abby
• Simple Western



Milo
• Simple Sc-Western



Maurice
• Simple icIEF + CE-SDS