Delta Tips

NMDT_0018



Curve Analysis Tool

< How to plot relaxation or diffusion data of multiple peaks at once>

The procedure is demonstrated on T_1 relaxation data.

① Click the 📐 button to activate the selection mode. Select the peaks of interest to plot their relaxation data.



2 Click the 🍰 button to plot the data. The **Print Options** window opens.

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Delta Tips

The Print Options window



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The Print Options window

- ③ Select the 'All Slices' option in the Print Options window.
- ④ It is possible to print up to four plots per page. We will plot four plots per page.

- - X - - X 🙆 Print Options 🙆 Print Options **Options per Slice Options per Slice** Slice Point (X) Slice Point (X) X-value table X-value table 📝 YI-value table YI-value table 🗹 Actual Data 📝 Actual Data 🗹 Curve fit equation Curve fit equation 📝 Fit Data 📝 Fit Data \bigcirc Standard deviation (σ) Standard deviation (σ) Chi square (χ²) 📄 Fit Sums Chi square (χ^2) Fit Sums Number of points Number of points \cap One Slice One Slice All Slices All Slices Data / Page: 1 Data / Page: 4 Scale to view B Scale to New B Cancel Cancel ③ Print data for multiple peaks (4) The number of plots per page

(5) Click the 😥 button in the **Print Options** window to plot the data. In the **Print** window (not shown), select a printer to plot on paper or JEOL PDF to print to a PDF file.

6 An example of plot is shown below.

5		20120814 stry double pulse-1-5.1df	5		20120814 stry double pulse-1-5, idf	
6		Vector at 2 61067/ere)	° -		Vector at 2 62760/mml	
6		veccor ac z.erve/(ppm)	8		vector at 2.62769 (ppm)	
0.4 0.5		Weighted Linear Inversion Recovery f(t) = f(inf) * (1-2*exp(-t/T1)) f(inf) = 0.70587 T1 = 0.83439[s]	.4 0.5		Weighted Linear Inversion Recovery f(t) = f(inf) * (1-2*exp(-t/T1)) f(inf) = 0.72866 T1 = 0.83137[s]	
ndanœ 1.5-0.4-0.3-0.2-0.1 0 0.1 0.2 0.3 ($\begin{array}{c} Y \\ Y \\ 0.5 \\ -0$	ndanœ 05-04-03-02-01 0 01 02 03 0		$\begin{array}{cccccccccccccccccccccccccccccccccccc$	
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60	10 20 20 40 50 60 70 80 0000		6 3			
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0		20120814_stry_double_pulse-1-6.jdf	0		20120814_stry_double_pulse-1-6.jdf	
1 1		Vector at 2.6632[ppm]	1 3		Vector at 2.67122[ppm]	
9		Weighted Linear Inversion Recovery	9.0		Weighted Linear Inversion Recovery	
۲ I		f(t) = f(inf)*(1-2*exp(-t/T1)) f(inf) = 0.79785			f(t) = f(inf)*(1-2*exp(-t/T1)) f(inf) = 0.78412	
-		T1 = 0.81674[s]	4		T1 = 0.80076[s]	
0		Y I	0		Y I	
	1	25.0[ms] -0.652 50.0[ms] -0.607	1 1	/	25.0[ms] -0.658 50.0[ms] -0.611	
2	/	0.1[s] -0.519	2		0.1[s] -0.524	
Ŭ	1	0.4[s] -0.12	Ŭ		0.4[s] -0.117	
]	1	0.6[s] 0.074 0.8[s] 0.235		1	0.6[s] 0.079 0.8[s] 0.236	
•	1	1.0[s] 0.364 2.0[s] 0.677	•		1.0[s] 0.361 2.0[s] 0.67	
1 4	1	3.0[s] 0.765		1	3.0[#] 0.753	
2		5.0[a] 0.793	5	1	5.0[a] 0.782	
- T	1	7.5[s] 0.794 10.0[s] 0.798			7.5[s] 0.78 10.0[s] 0.784	
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