Delta Tips

NMDT 0038

NMR data processing software So How to Measure Full Width at Half Maximum

160406-1

This issue of Delta Tips demonstrates measurement of full width at half maximum (FWHM), also known as line width at half height (LWHH), in 1D Processor.

① Select **Display – Peaks – Print Peak Widths**. This will add the 'print peak widths' command.



2 Click the **I** button and select a signal to copy its chemical shift into the clipboard.

③ Click the black triangle next to 'print peak widths' to reveal all the parameters.

1D Processor : gibberellic_acid_proton-1.jdf	
File Options Reports PreTransform Window Transform PostTransform Display Analyze Tools	
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(spendod control of the second	↓ ↓
2 x: 3.32272[ppm] 1: 78.42717[abn] 3.4 3.3 3.2 3.1 3.0 2. 1 X: parts per Million : 1H	Report Company Prior Company P



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④ Paste the value stored in the clipboard (e.g. 3.32272 ppm) into the **Position** input box.



(5) Click the button to execute the processing list.

(6) Find the FWHM value in the Delta window as shown the figure. It is 13.9 Hz in the example.

ſ	🖉 JEOL Delta v5.0.5.2
	File Options Acquire Process View Analyze Tools
	Delta NMR Processing and Control Software v5.0.5.2-Beta (06-09-17 14:14 [build 2]) [Windows] Corveright 1990 2017 by outbounder, Inc.
	Peak Width at 0.00(8) = 13.94694[Hz] Peak Width at 0.050(8) = 247.09150[Hz] Peak width at 0.11(8) = 382.13702[Hz]
	I

★ The procedure described above creates a report which can be viewed by using the File



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