Delta Tips

NMDT_0037

NMR data processing software Delta NMR Software v5.0

160829-1

Integration: Transfer Integral Tool

This issue of Delta Tips relates to integration of multiple spectra and quantitative analysis (qNMR). The **Transfer Integral Tool** can be used to integrate several spectra in identical integral ranges. It conveniently copies integral ranges from one spectrum to another one. The procedure shown below applies to 1D Processor and Data Slate. We will use a Data Slate window in the example.

① Select Analyze – Transfer Integral Tool.



② Click the and solutions in the Transfer Integral Tool window. Then select the spectrum to load the integral ranges by the cursor.

Transfer Integral Tool	Click	Transfer Integral Tool:acetaminophen_qNMR File Options	no1-1-2.jdf
Integral Range #H R N		Integral Range	#H R N
		0.33694[ppm] 45.22059[ppb]	
		2.09914[ppm] 1.80241[ppm]	
		6.83082[ppm] 6.46673[ppm]	
		7.44465[ppm] 7.15512[ppm]	
		9.34127[ppm] 8.72964[ppm]	
		9.85953[ppm] 9.37072[ppm]	
		Upper Limit	Lower Limit
to			-
Normal 1 Norm All Un-norm All Sort		1330.93024Lphp1	nofhhnl
		Normal 1 Norm Al	Un-norm All Sort

JEOL RESONANCE

Delta Tips

③ Click the 🔊 button in the Transfer Integral Tool window. Then select the spectrum to apply the integral ranges into by the cursor.

140725-2

NMR data processing software

Delta

Transfer Integral Tool:acetaminophen_qNMF	L_no1-1-2.jdf 🗖 🗖 🗙		
File Options		🖉 Data Slate : acetaminophen_qNMR_no2-1-2.jdf	x
	×	File Options Reports Project Slicing Expansion Process View Analyze Tools Actions	
Integral Range	#H		
0.33694[ppm] 45.22059[ppb]			K 🕈
2.09914[ppm] 1.80241[ppm]		aminophen_qNMR_no2-1-2.jdf	
6.83082[ppm] 6.46673[ppm]			
7.44465[ppm] 7.15512[ppm]			
9.34127[ppm] 8.72964[ppm]			
9.85953[ppm] 9.37072[ppm]			
Upper Limit	Lower Limit		
336.93624[ppb] to 45.22	06[ppb]	1 X : parts per Million : Proton	
Normal 1 Norm A	II Un-norm All Sort		

★ To normalize an integral click the button in the 'N' column of the integral (e.g. 7.44 – 7.16 ppm). Then input the value into the 'Normal' input box, click the button and select the spectrum by the cursor.

Fransfer Integral Tool:acetaminophen_qNMF	_no1-1-2.jdf 💷 🔲 💌 🗙	
File Options		🖉 Data Slate : acetaminophen_qNMR_no2-1-2.jdf
	×	File Options Reports Project Slicing Expansion Process View Analyze Tools Actions
Integral Range	#H	
0.33694[ppm] 45.22059[ppb]		
2.09914[ppm] 1.80241[ppm]		aminophen_qNMR_no2-1-2.jdf
6.83082[ppm] 6.46673[ppm]		
7.44465[ppm] 7.15512[ppm]		
9.34127[ppm] 8.72964[ppm]		8 9 9
9.85953[ppm] 9.37072[ppm]		
Upper Limit	Lower Limit	
336.93624[ppb] to 45.22	06[ppb]	1 X : parts per Million : Proton
Normal 2 Norm A	II Un-norm All Sort	

★ Select File – Save Template to save the integral ranges to a file (JIL format).

