

brown sugars, mixtures and extracts of sugar beet through a PCA analysis by integrating and undirected resolution of resonance signals in a ¹H-NMR dataset by Multivariate **Resolution Curve-Alternating Least Squares (MCR-ALS)** as an independent preprocessing method, which consists of dividing the data set into spectral windows containing between one and three resonances, where each independent window is resolved by MCR-ALS [3,4], as well as to compare the results obtained with a more common spectral preprocessing of dimensionality reduction, such as **Binning**.



Table 1: Example of resonance signals obtained compared with bibliography							
Compound	δ (ppm) The.	δ (ppm) Exp.	Multiplicity The.	Multiplicity Exp.	J (Hz) The.	J (Hz) Exp.	
Alanine	1.47	1.48	d	d	7.1	7.25	
GABA	1.92 ; 2.30	1.92 ; 2.30	p;t	p;t	7.62 ; 7.35	7.64 – 7.44 ; 7.36	



