Electronic Supplementary Material (ESI) for RSC Advances.
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3-Hydroxypropionaldehyde (3-HPA) quantification by HPLC using synthetic acrolein-free 3-hydroxypropionaldehyde system as analytical standard

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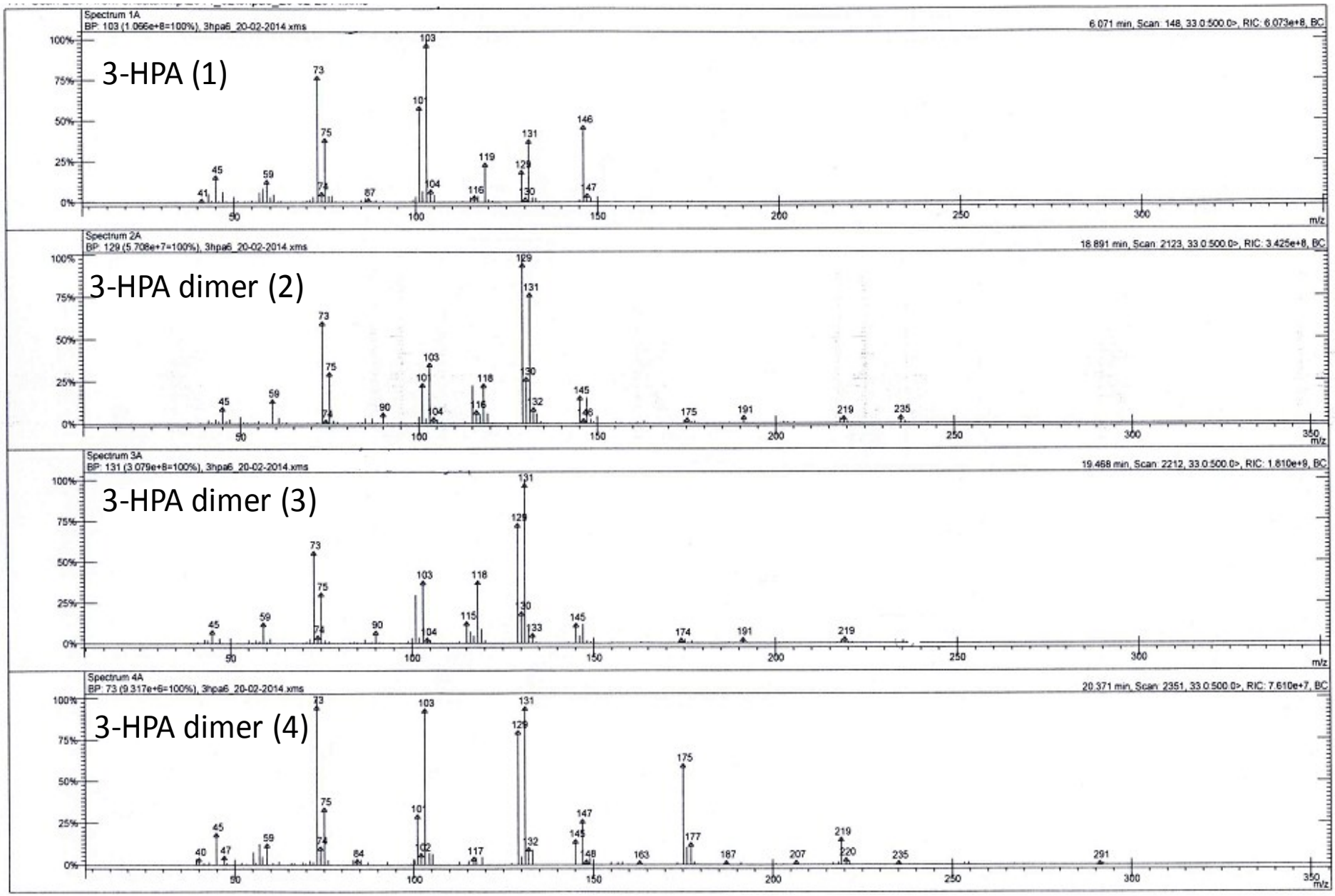
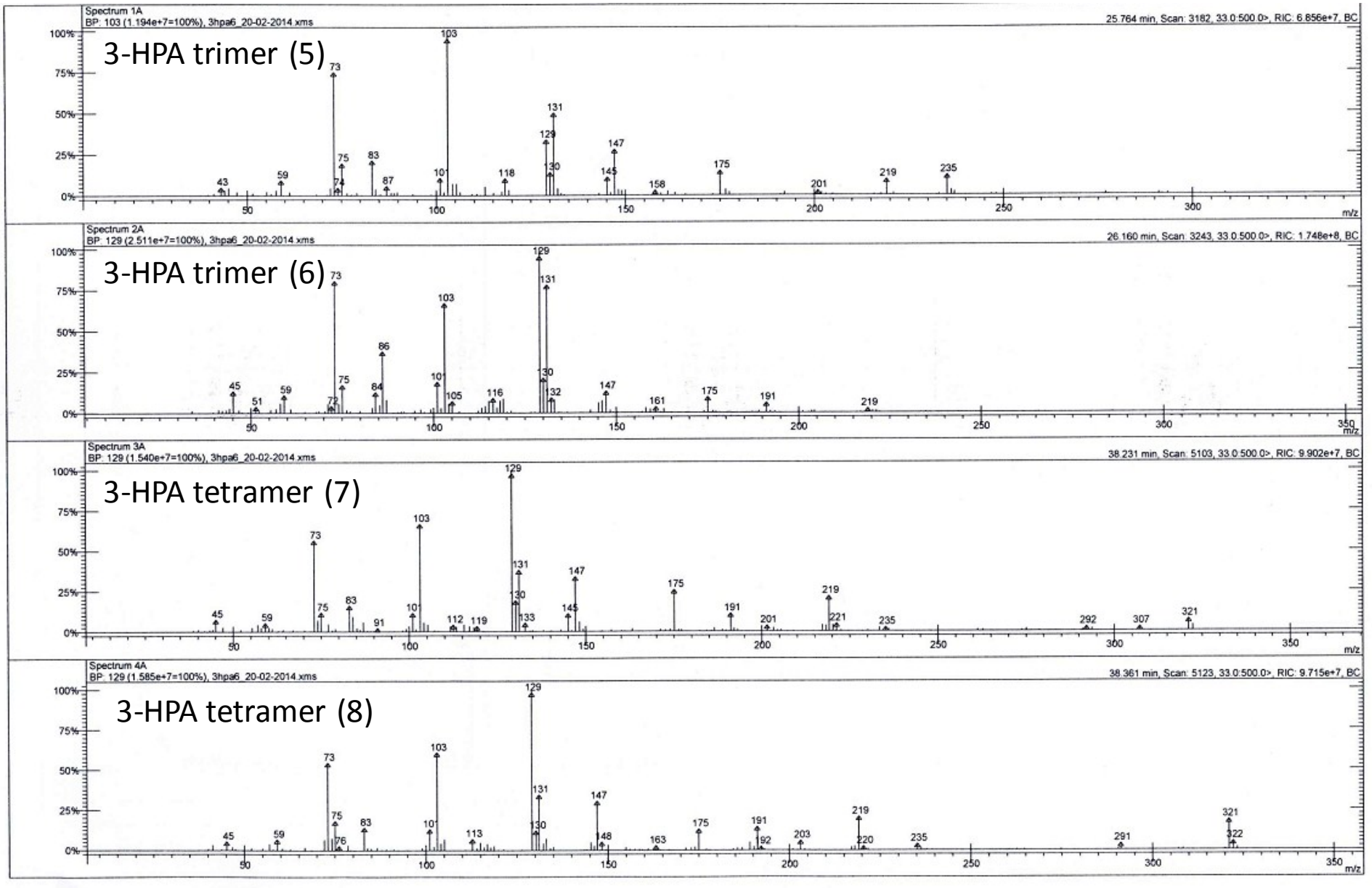
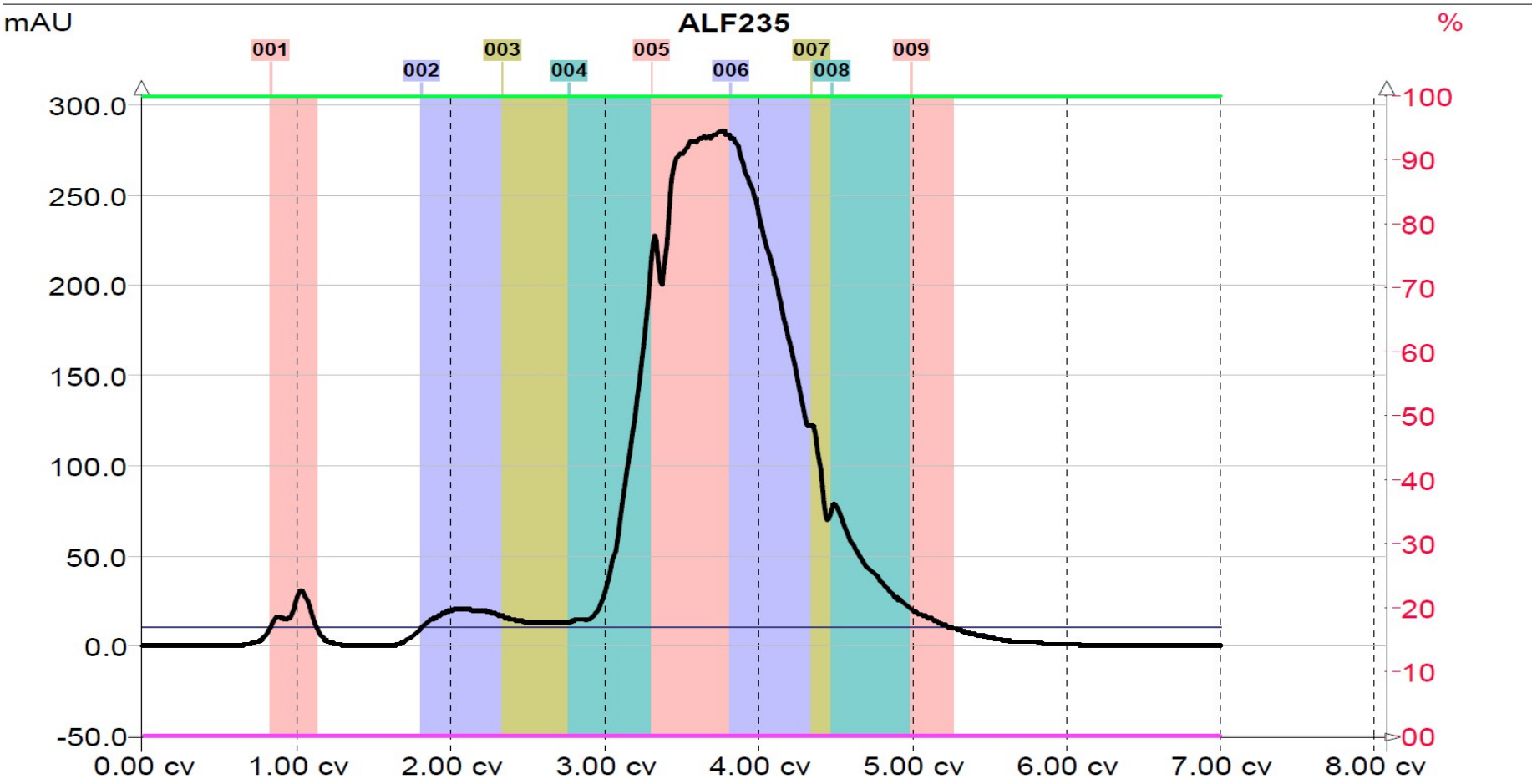
GC-MS spectra





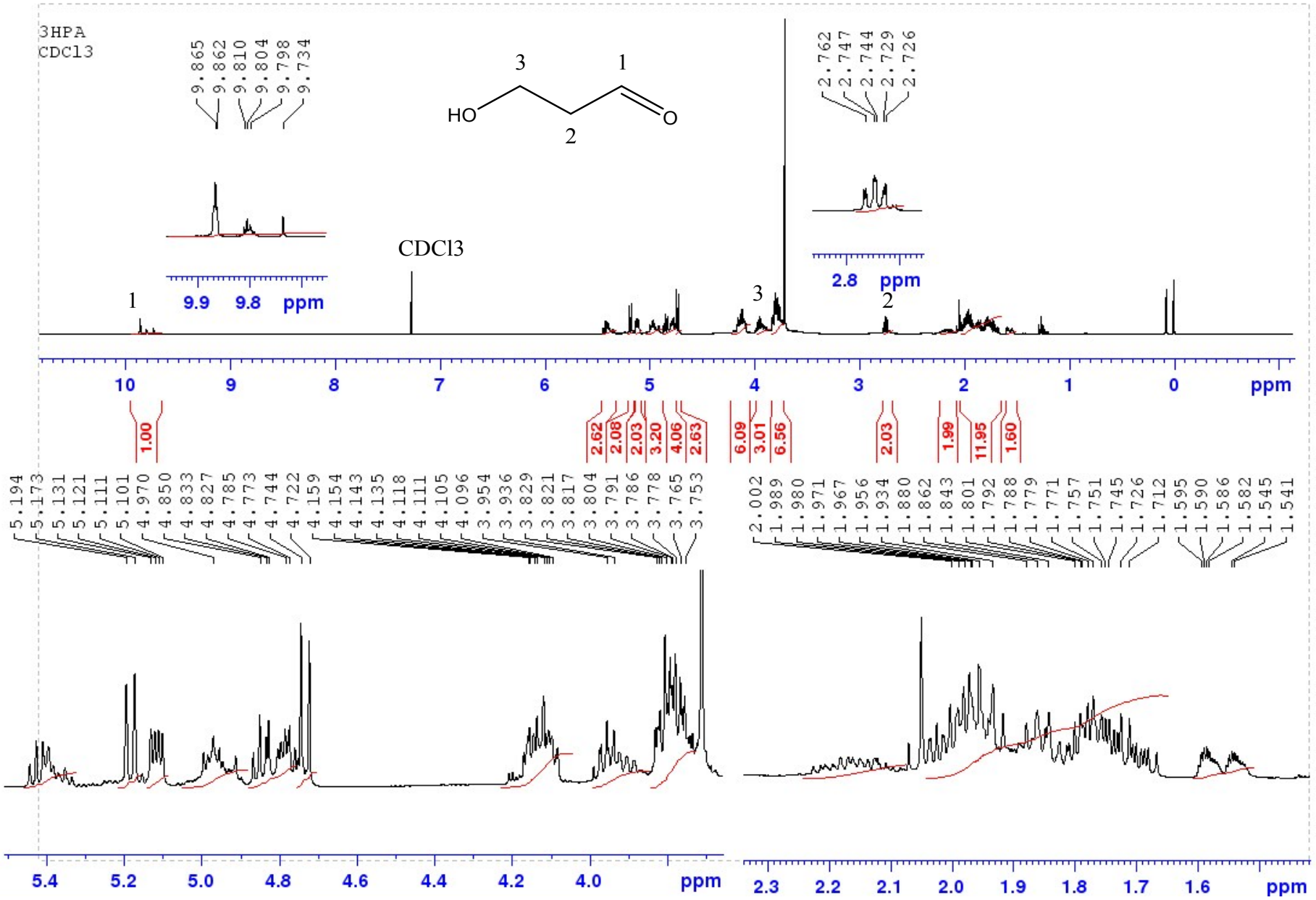
Details of GC-MS spectrum from chromatogram displayed in Fig. 7. Numbers (e.g., (1)) correspond to the peaks observed on the GC-MS chromatogram in order of appearance. Retention times are indicated on the top of each spectrum.

Chromatogram of 3-HPA purification on an Interchim© Puriflash System using ELSD detection

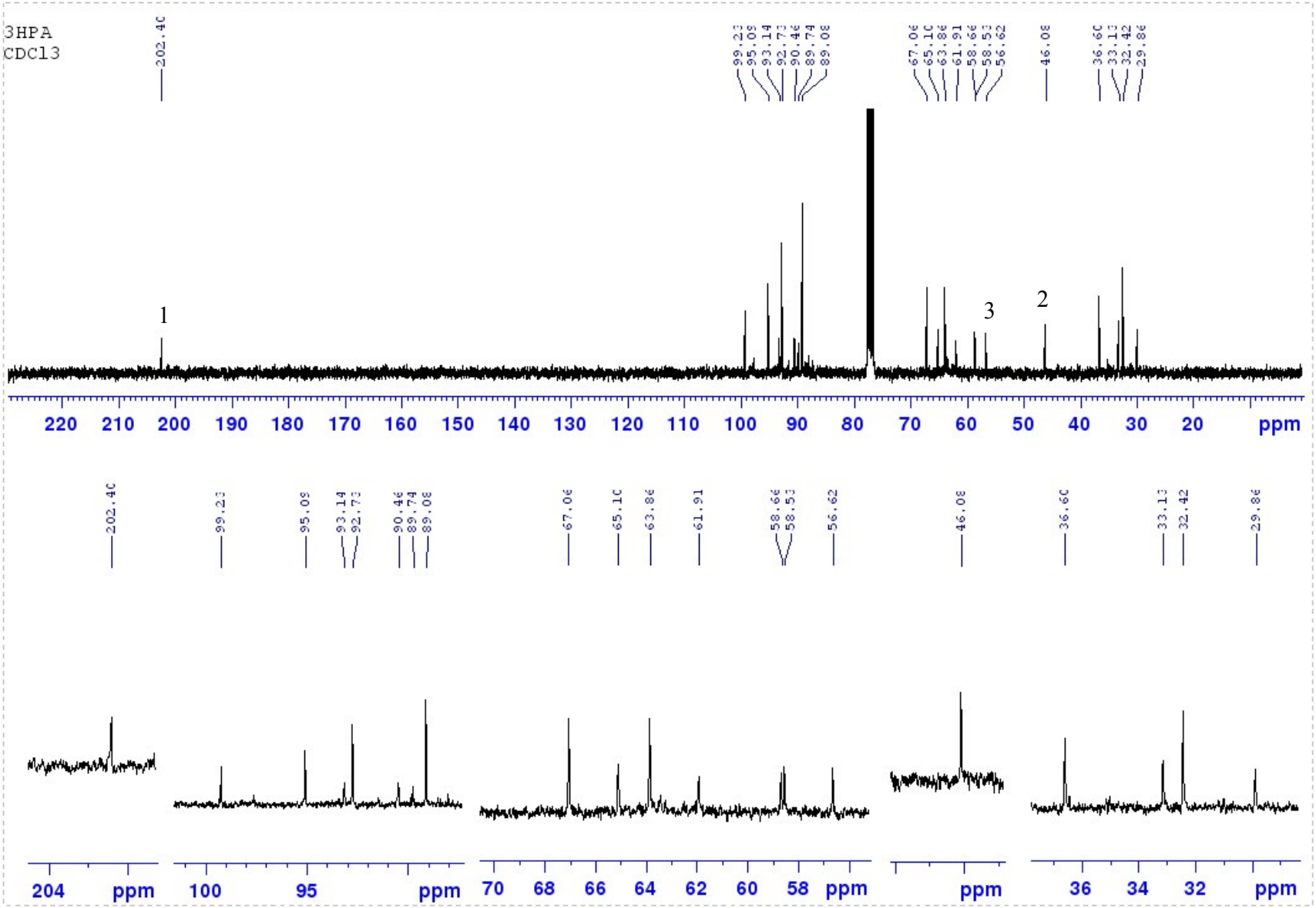


Purification of crude synthetic 3-HPA on silica gel with ethyl acetate (100%)

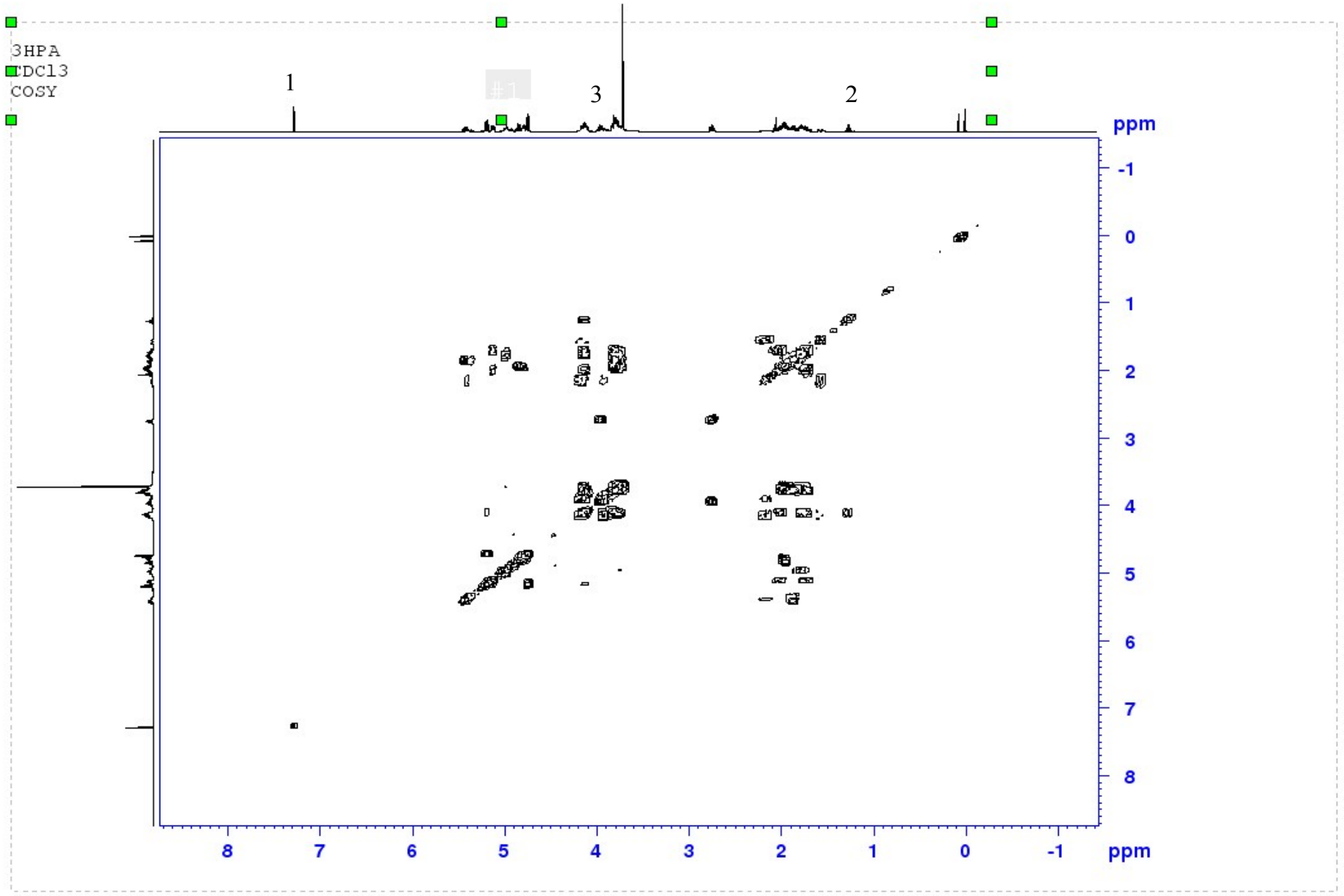
^{1}H NMR spectrum of 3-HPA system ($CDCl_3$, 300 MHz)



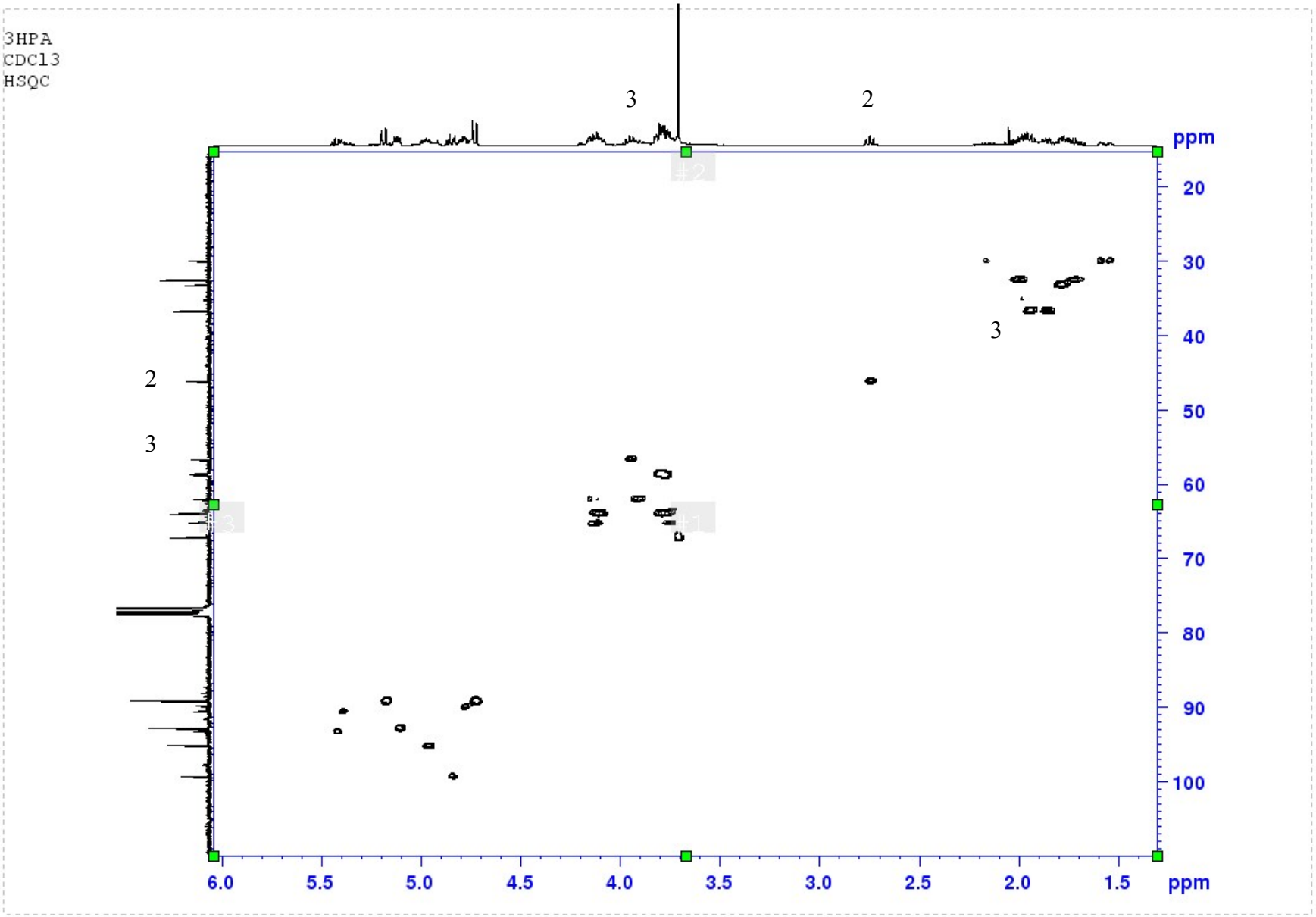
^{13}C NMR spectrum of 3-HPA system ($CDCl_3$, 75 MHz)



Cosy ^{1}H-^{1}H spectrum of 3-HPA system



HSQC spectrum of 3-HPA system



HMBC spectrum of 3-HPA system