

One-Pot Synthesis of NEMP, a VX Surrogate, and Reactivation of NEMP-Inhibited *Electrophorus Eel* Acetylcholinesterase by Current Antidotes

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O-(4-Nitrophenyl) O-ethyl methylphosphonate (NEMP, **7**)

¹H NMR (500 MHz, CDCl₃): δ 1.36 (t, 3H, *J* 7.08 Hz, CH₃), 1.74 (d, 3H, *J* 17.74 Hz, CH₃), 4.23 (m, 2H, *J* 6.97 Hz, CH₂), 7.28 (d, *J* 9.15 Hz, CH), 8.25 (d, 2H, *J* 9.15 Hz, CH); ¹³C NMR (125 MHz, CDCl₃) δ 11.6, 16.32, 63.43, 121.04, 126.09, 140.69, 155.19; ³¹P NMR (202 MHz, CDCl₃) δ 30.35; MS, *m/z* 244.9 (M⁺), *t_R* = 17.528 min.

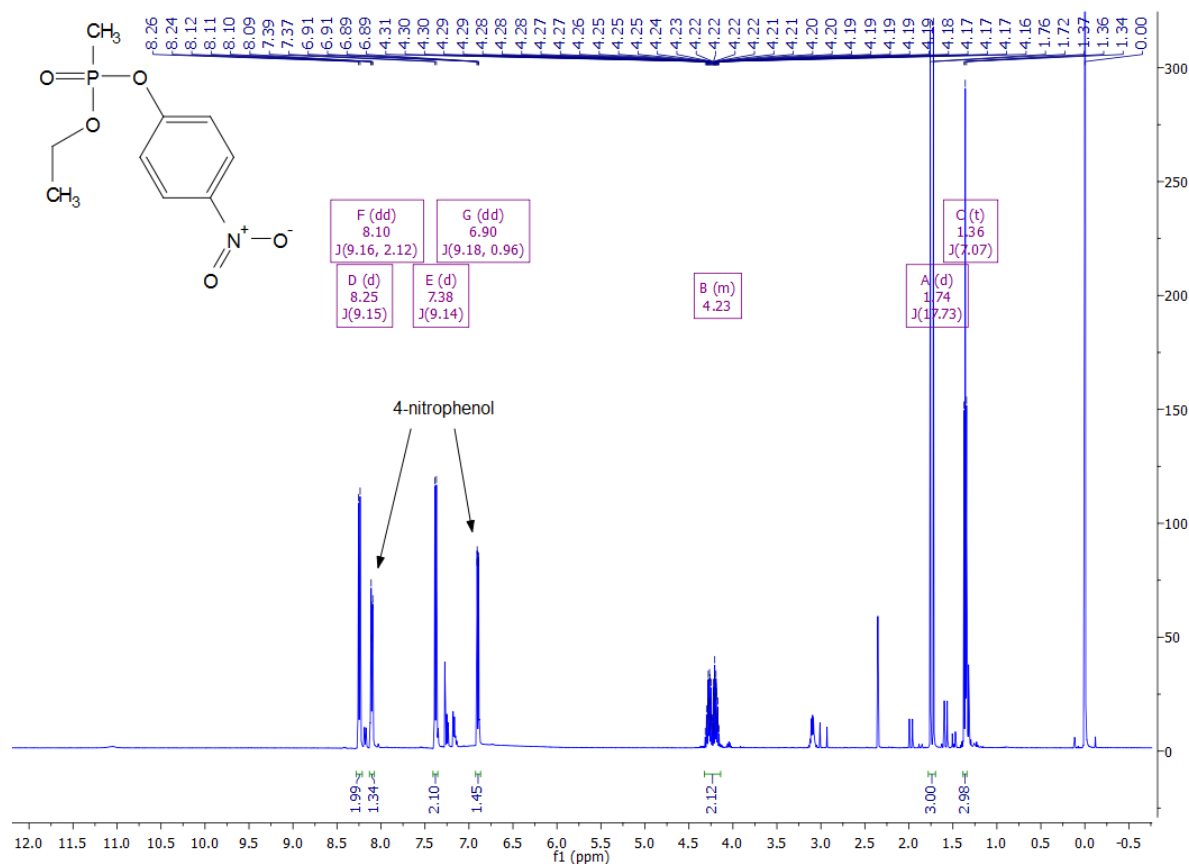


Figure S1. ¹H NMR spectrum (500 MHz, CDCl₃) of compound **21**.

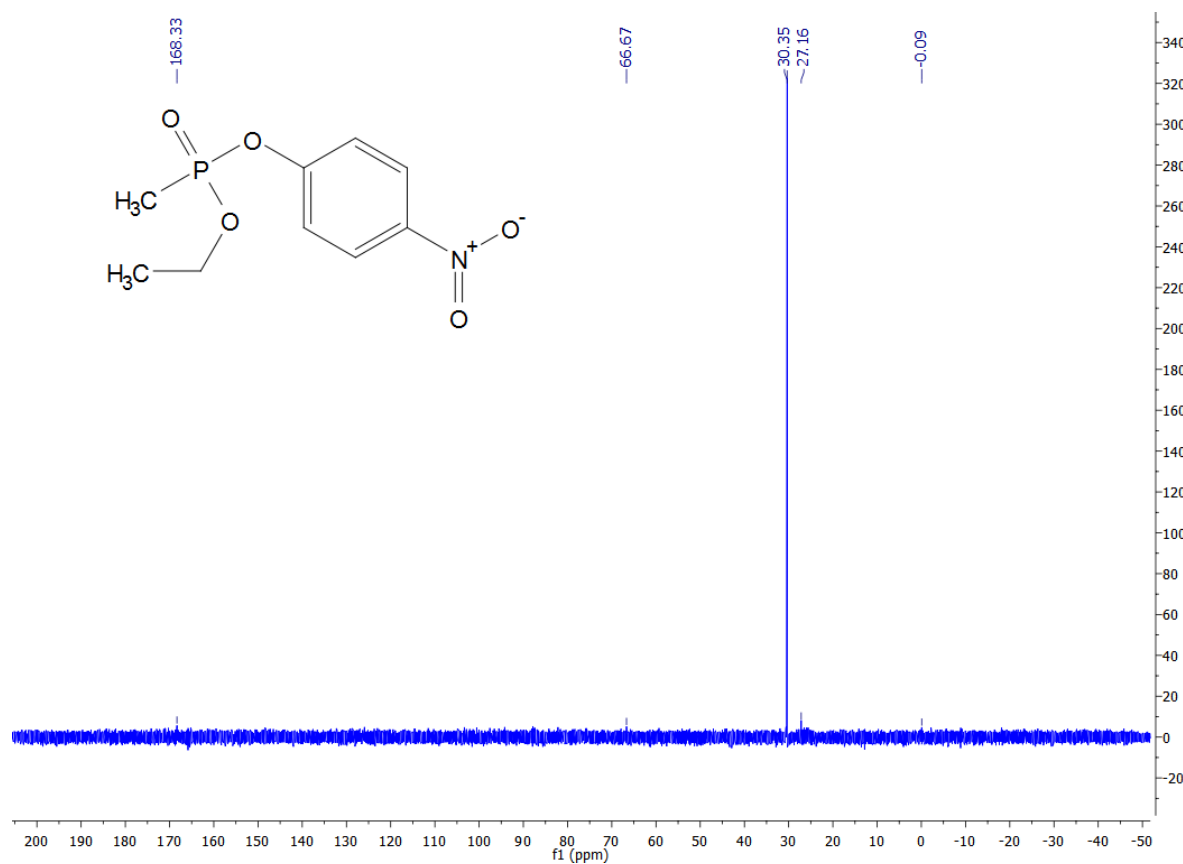
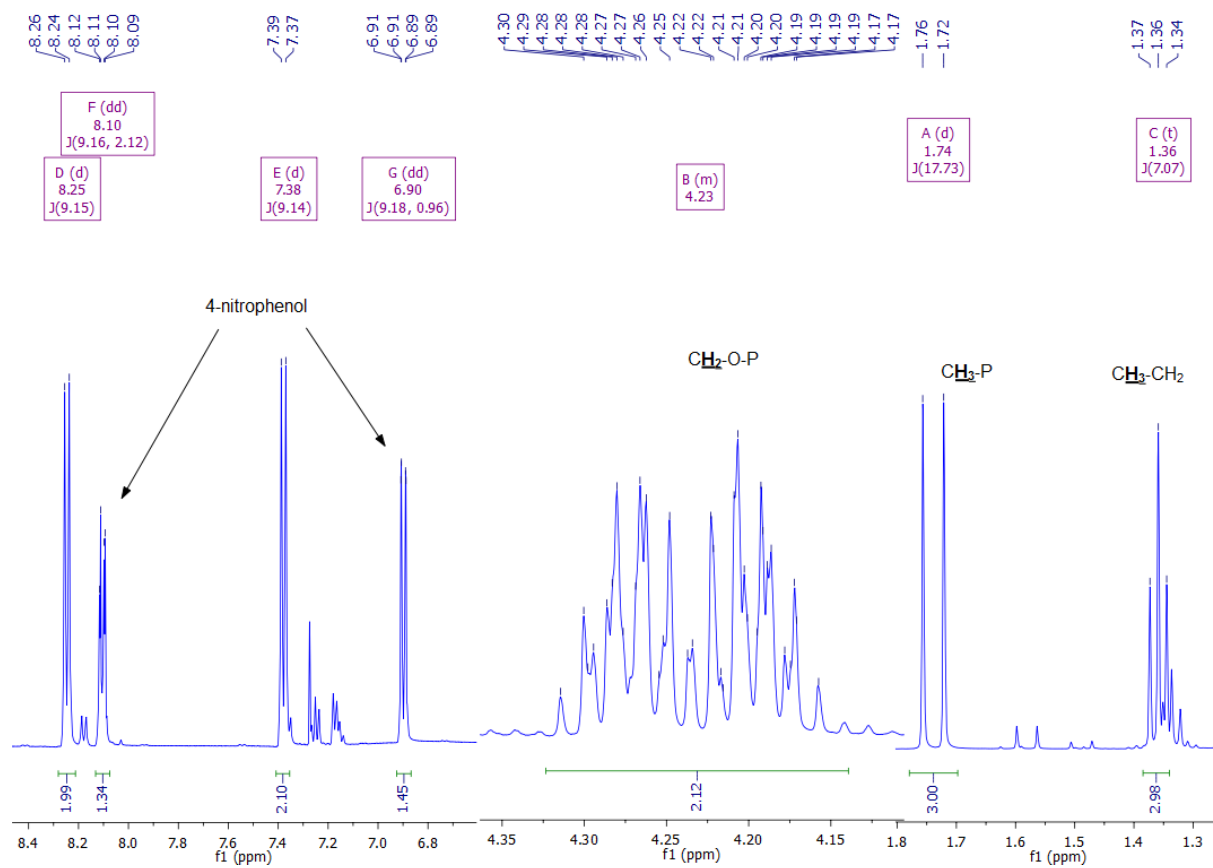


Figure S3. ^{31}P NMR spectrum (202 MHz, CDCl_3) of compound **21.**

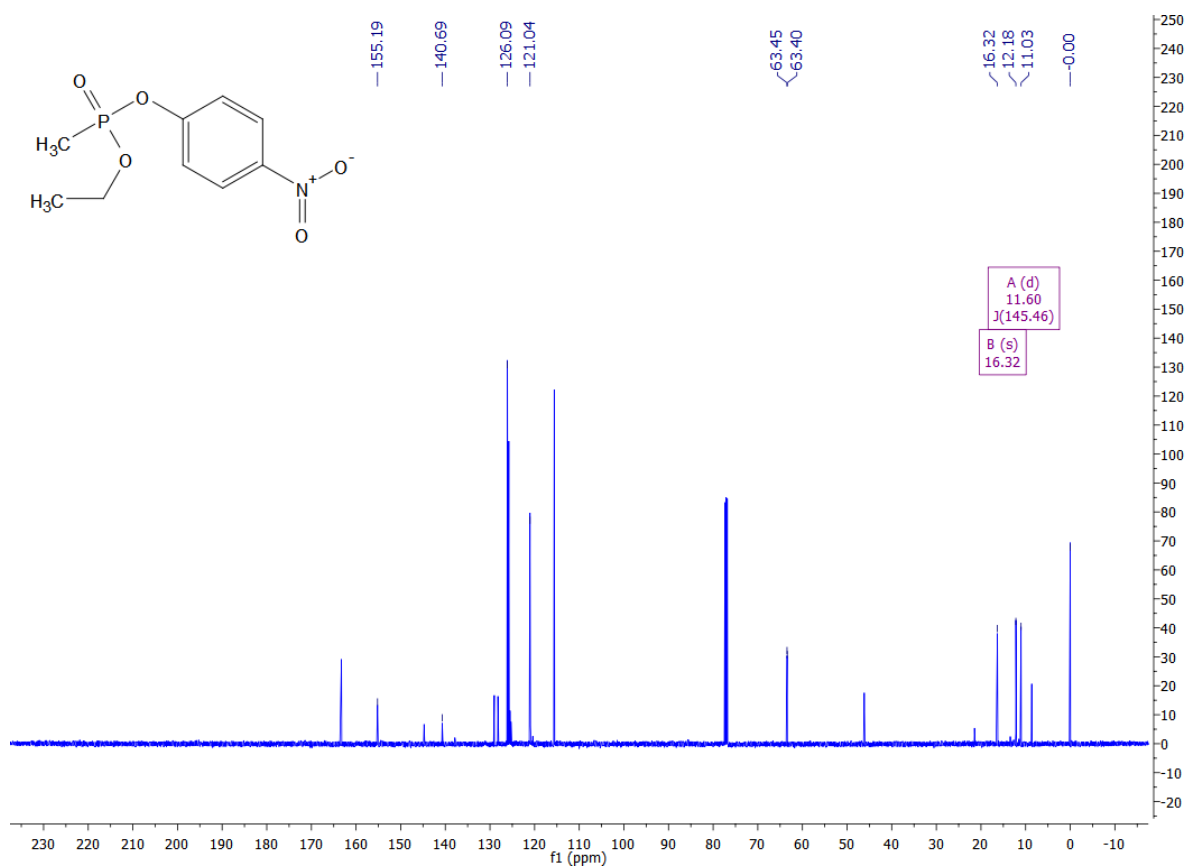


Figure S4. ¹³C NMR spectrum (125 MHz, CDCl₃) of compound 21.

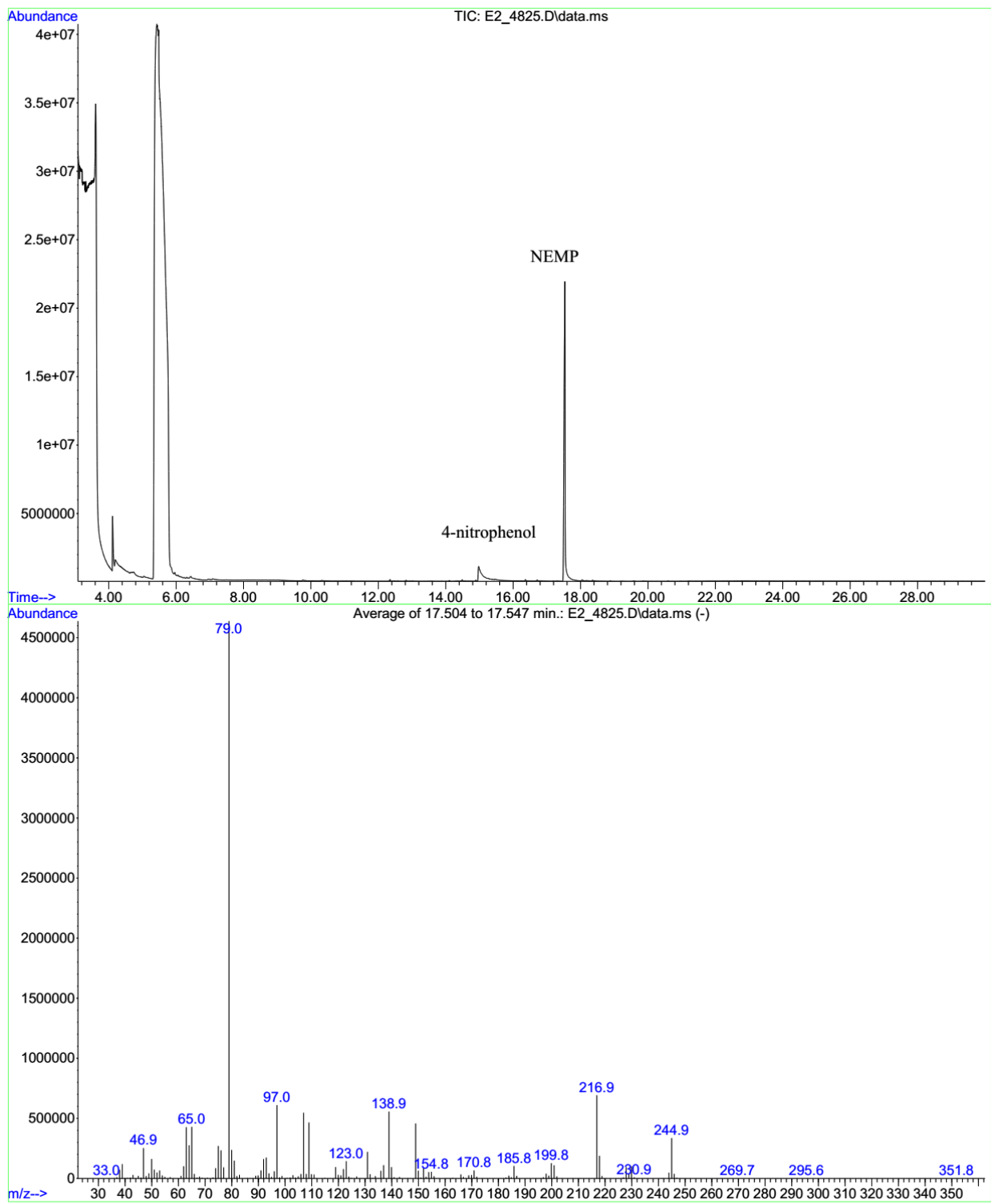


Figure S5. Total ion chromatogram and mass spectrum (EI) of compound **21** ($t_R = 17.526$ min).

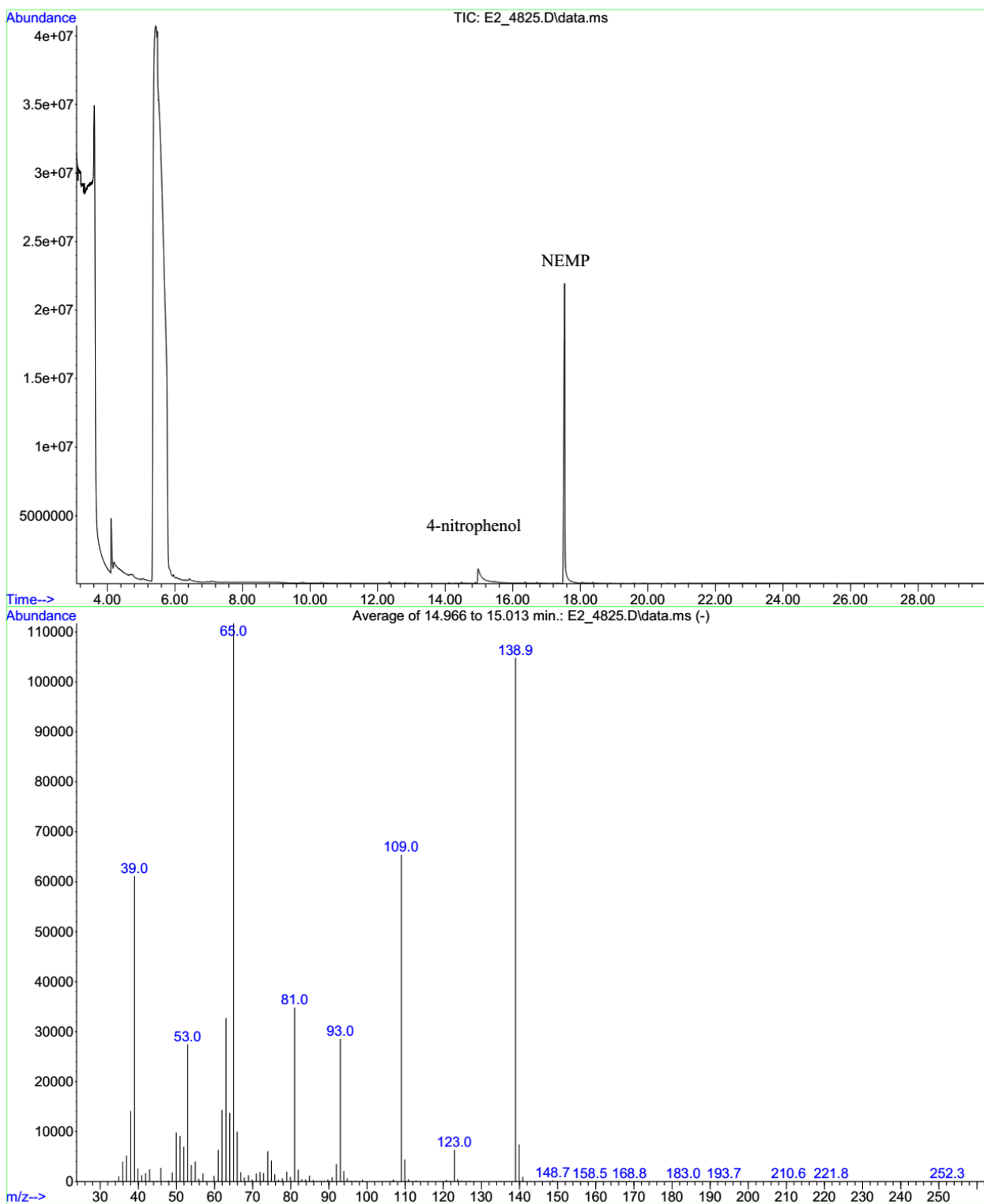


Figure S6.Total ion chromatogram and mass spectrum (EI) of major impurity (4-nitrophenol, $t_R = 14.993$ min).