

Supplementary material to

Graphene-modified nickel foam electrode for cathodic degradation of nitrofurazone: Kinetics, transformation products and toxicity

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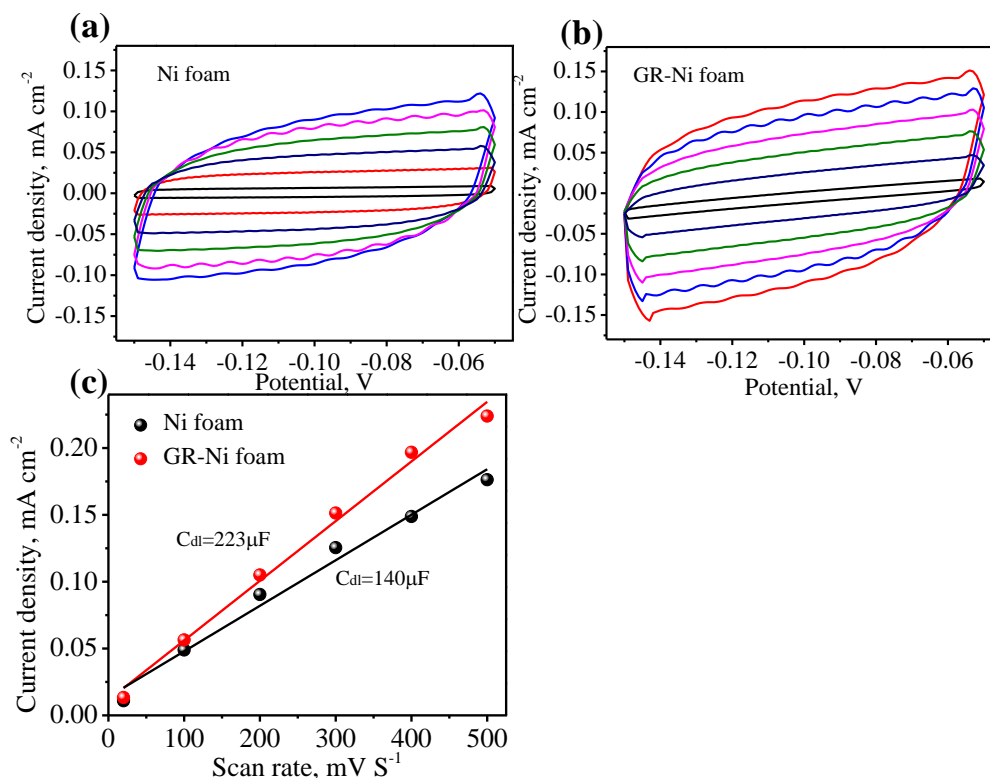


Figure S1. Cyclic voltammograms in the region between -0.15 and -0.05 V vs. SCE at (a) Ni foam and (b) GR-Ni foam; (c) Current density at -0.10 V plotted against scan rate fitted to a linear regression for the estimation of C_{dl} .

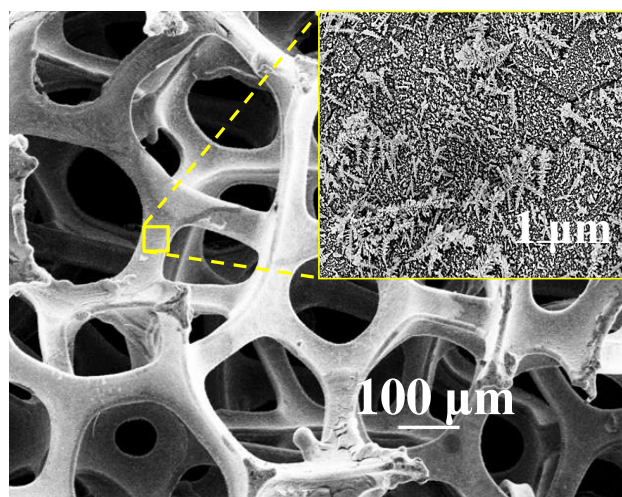


Figure S2. SEM image of Pd-Ni foam

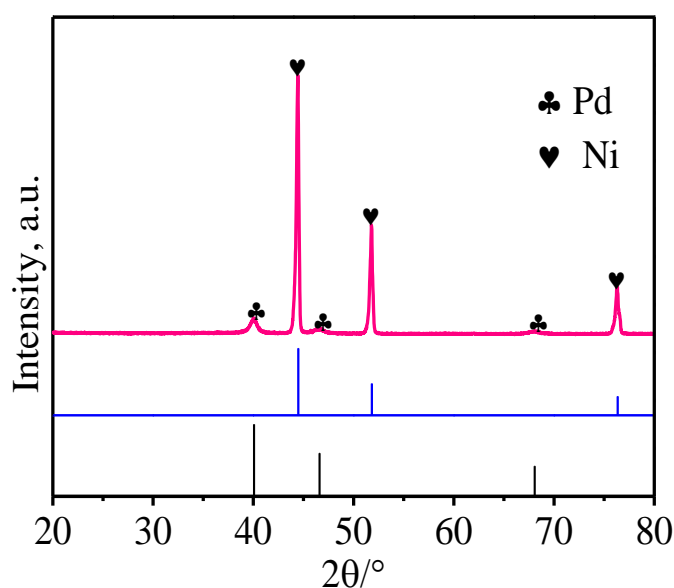


Figure S3. XRD pattern of Pd foam

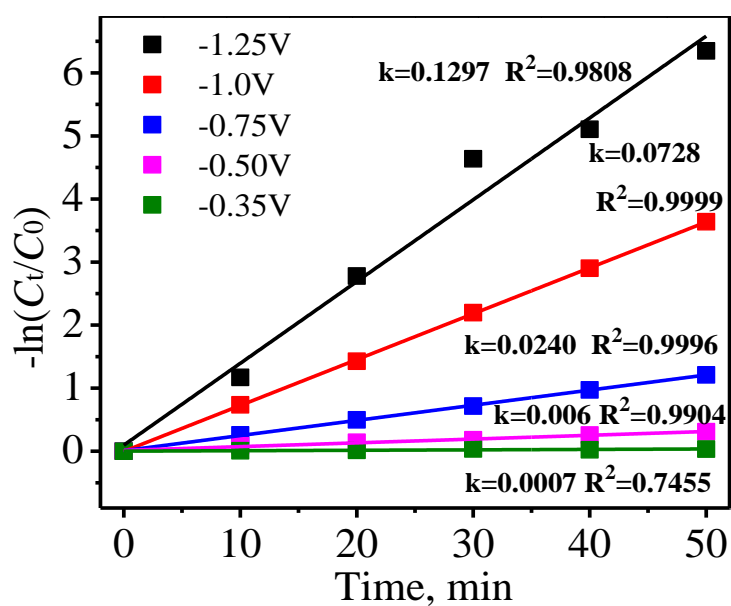


Figure S4. Reaction kinetics at different cathode potential for NFZ degradation at GR-Ni foam electrode (0.1 M Na₂SO₄, 20 mg L⁻¹ NFZ and pH 4.28)

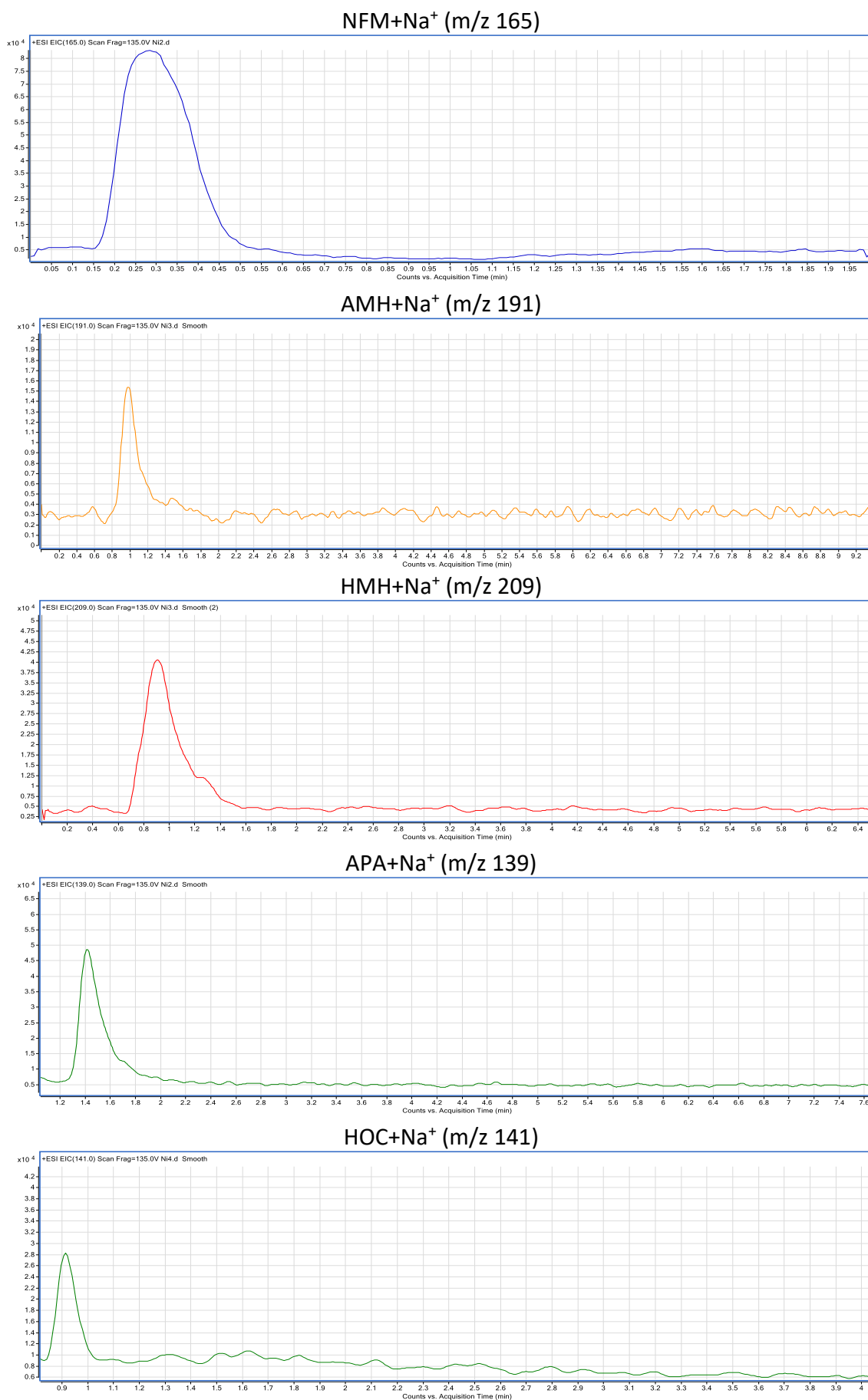


Figure S5. MS identification of NFZ degradation products at Ni foam electrode

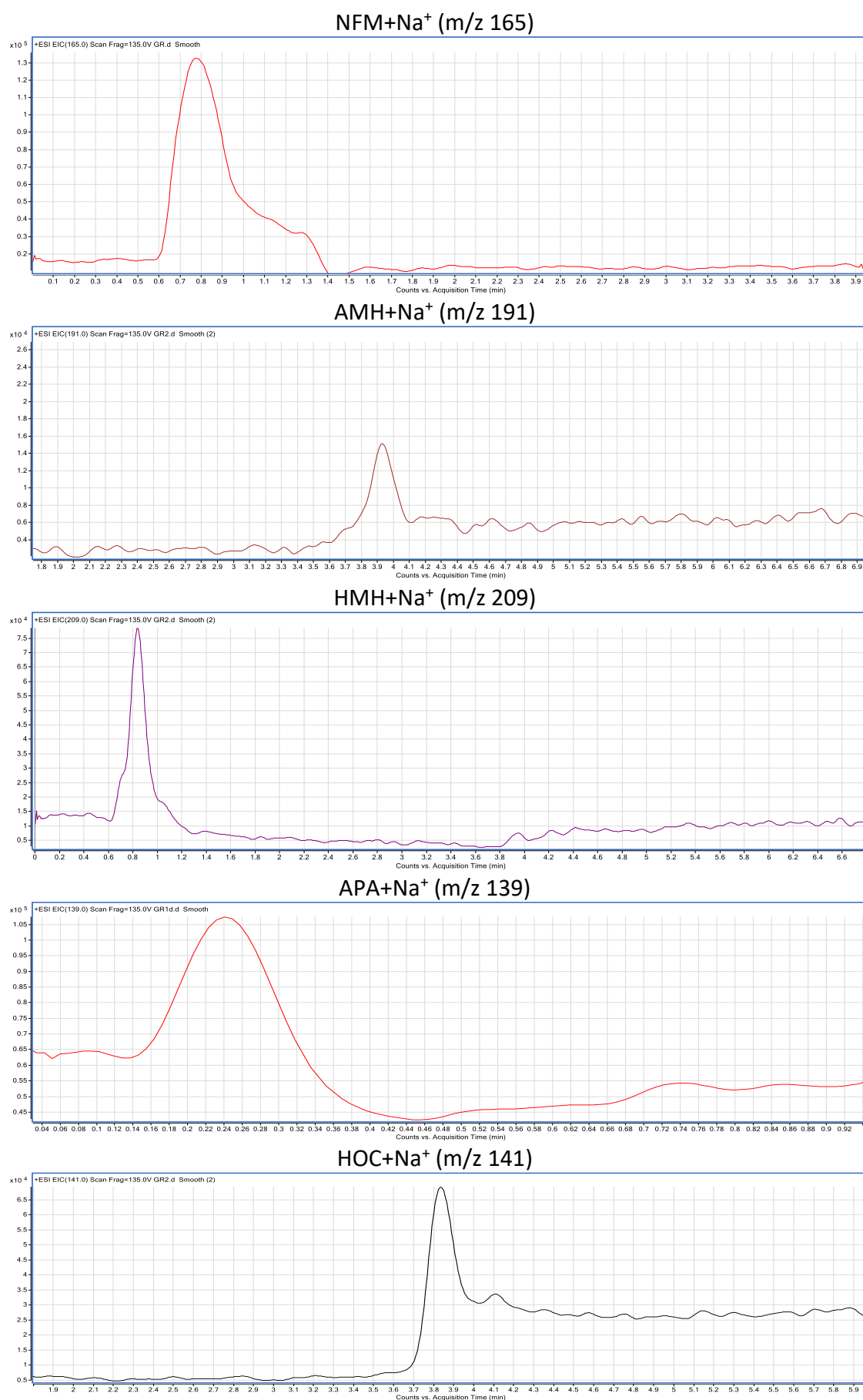


Figure S6. MS identification of NFZ degradation products at GR-Ni foam electrode

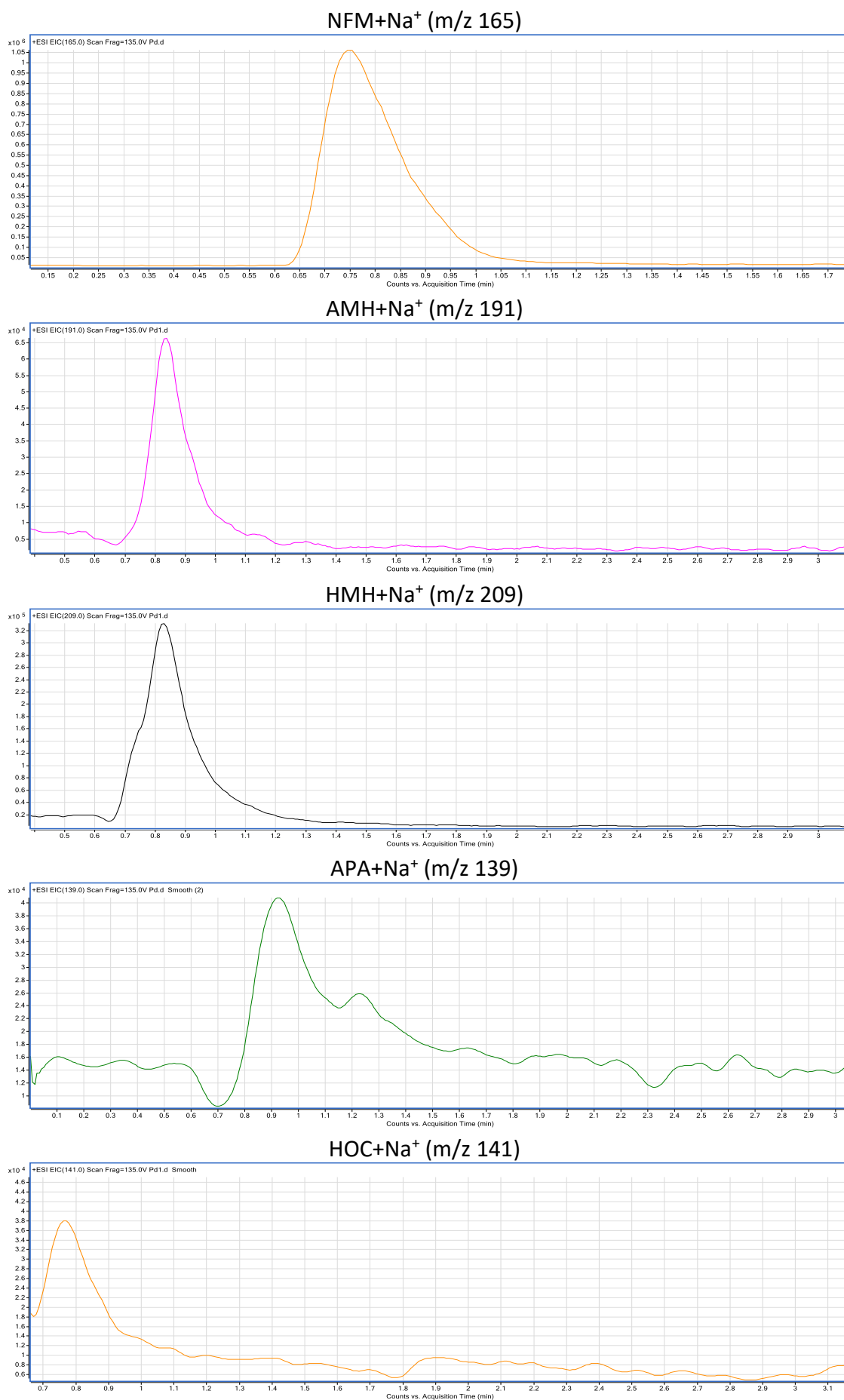


Figure S7 MS identification of NFZ degradation products at Pd-Ni foam electrode.

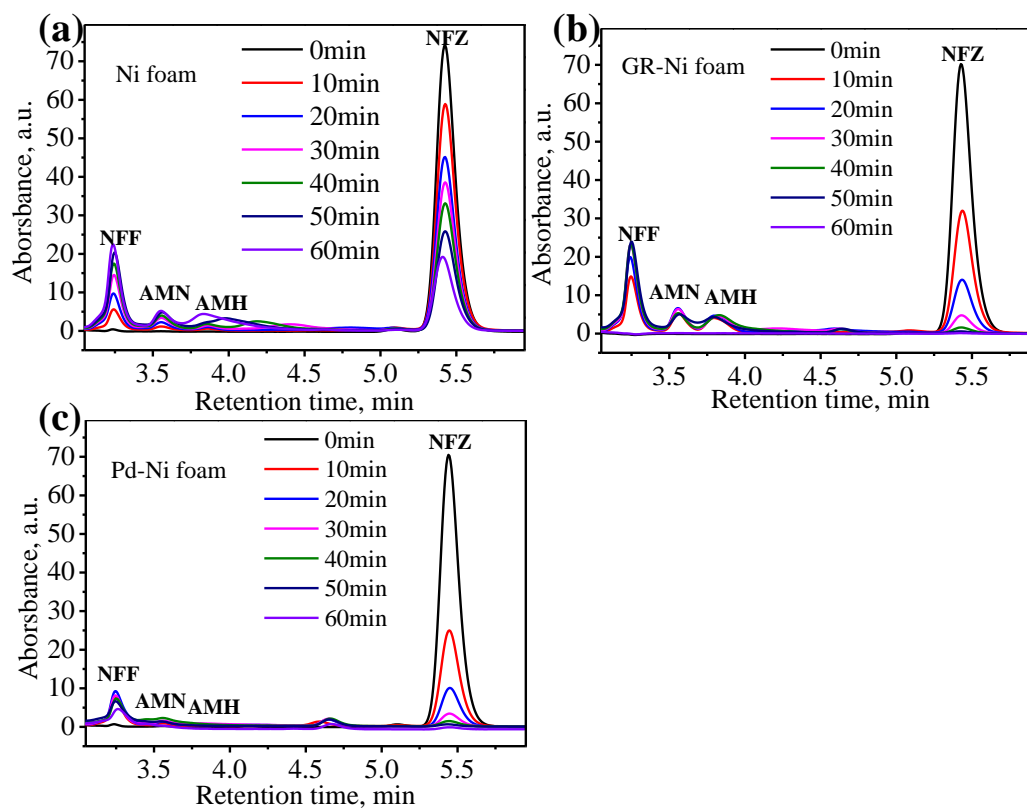


Figure S8. (A) UV-vis absorbance of electroreductive products of NFZ after different reaction times on (a) Ni foam, (b) GR-Ni foam and (c) Pd-Ni foam