

Supplementary Materials

Photoluminescence Induced in Mineral Oil by Ionizing Radiation

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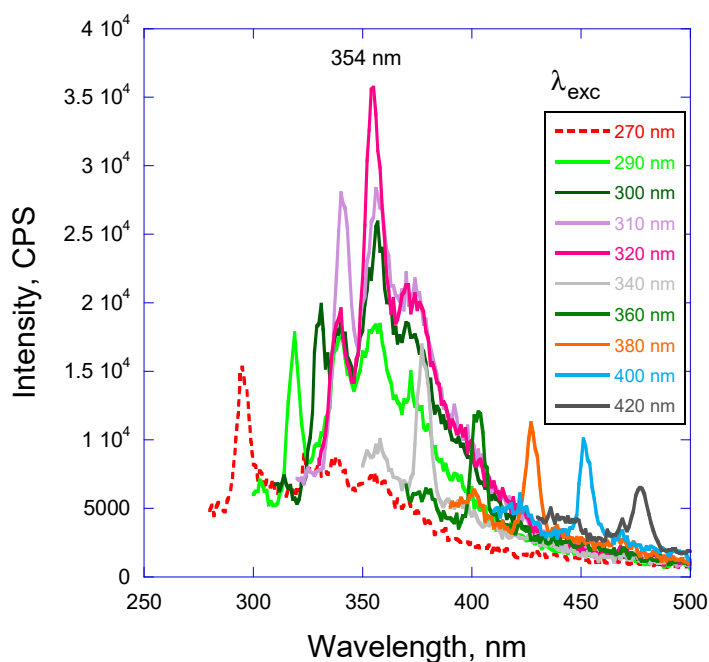
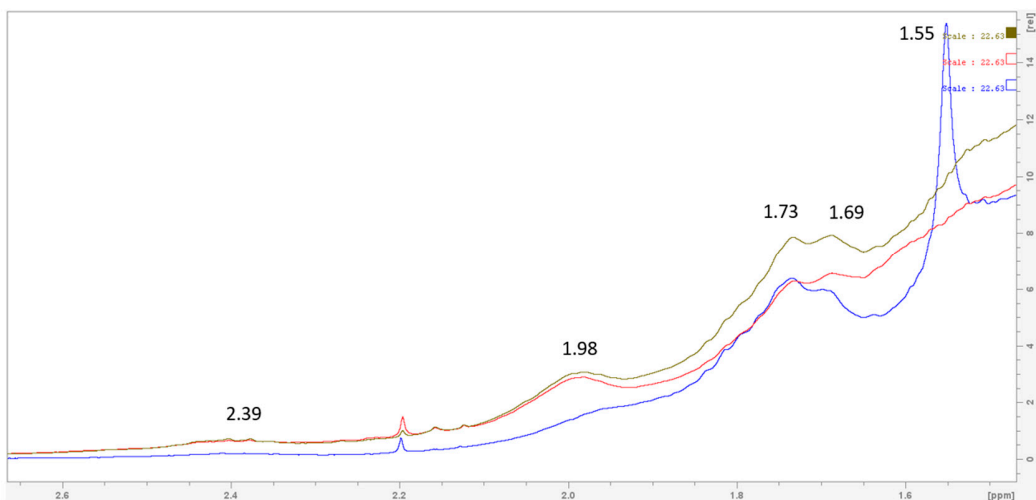
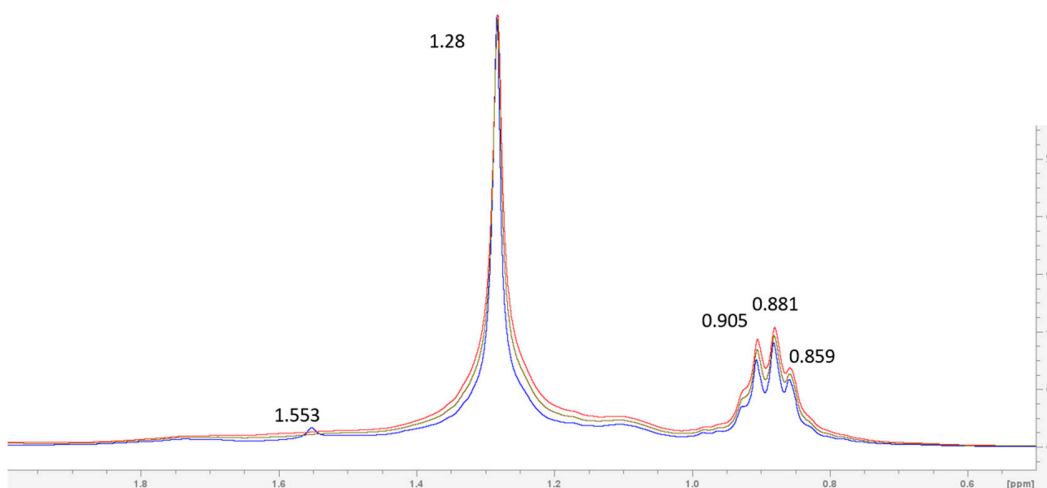
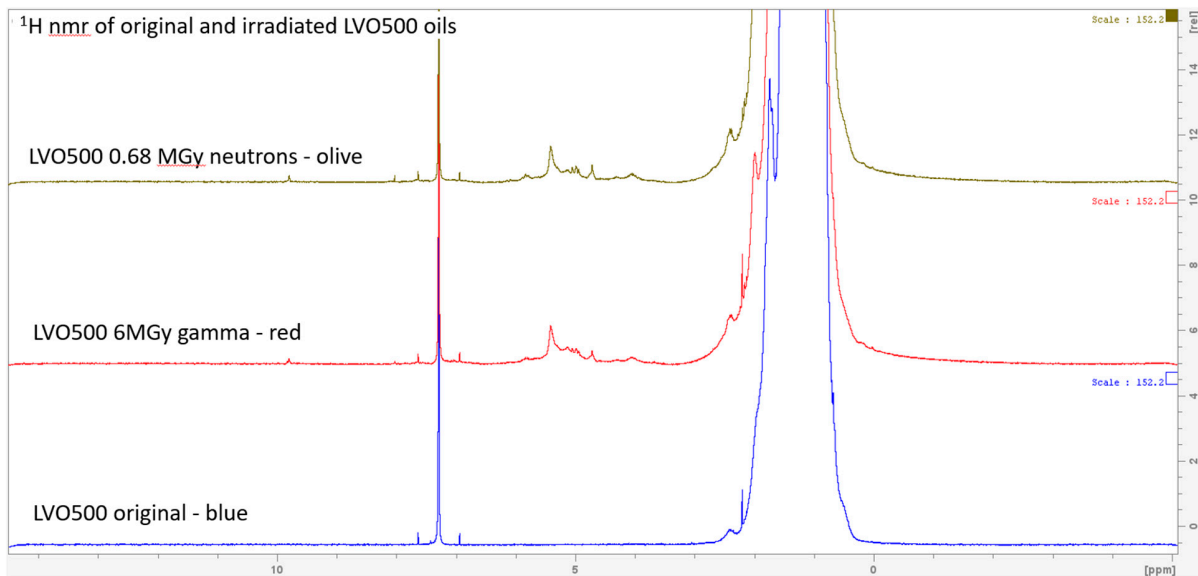


Figure S1. Fluorescence spectra of hexane at different excitation wavelengths.



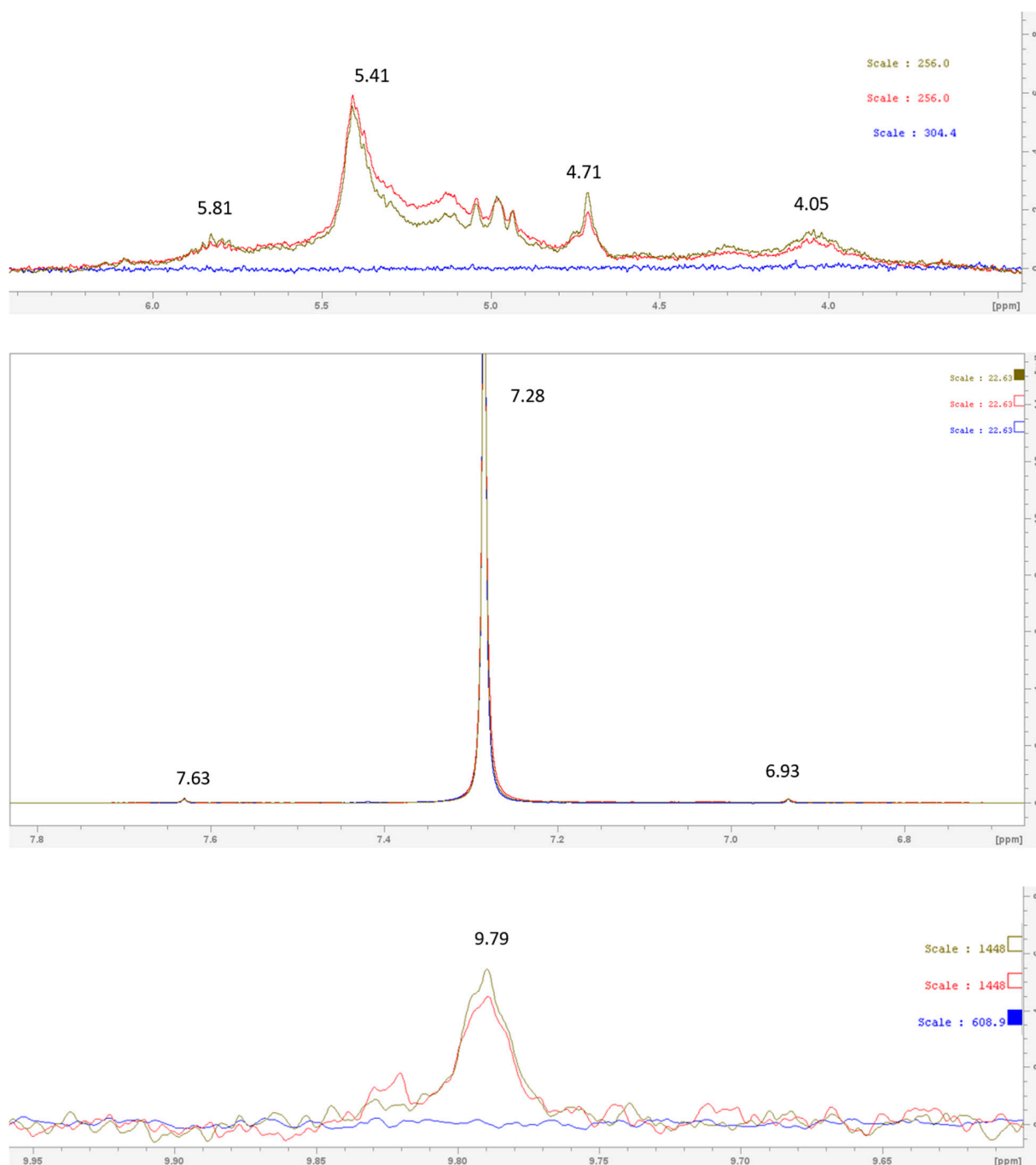


Figure S2. Proton NMR spectra of original LVO 500 oil (blue lines) and that exposed to 6 MGy gamma radiation (red lines) or a 0.68 MGy neutron (olive lines) dose.

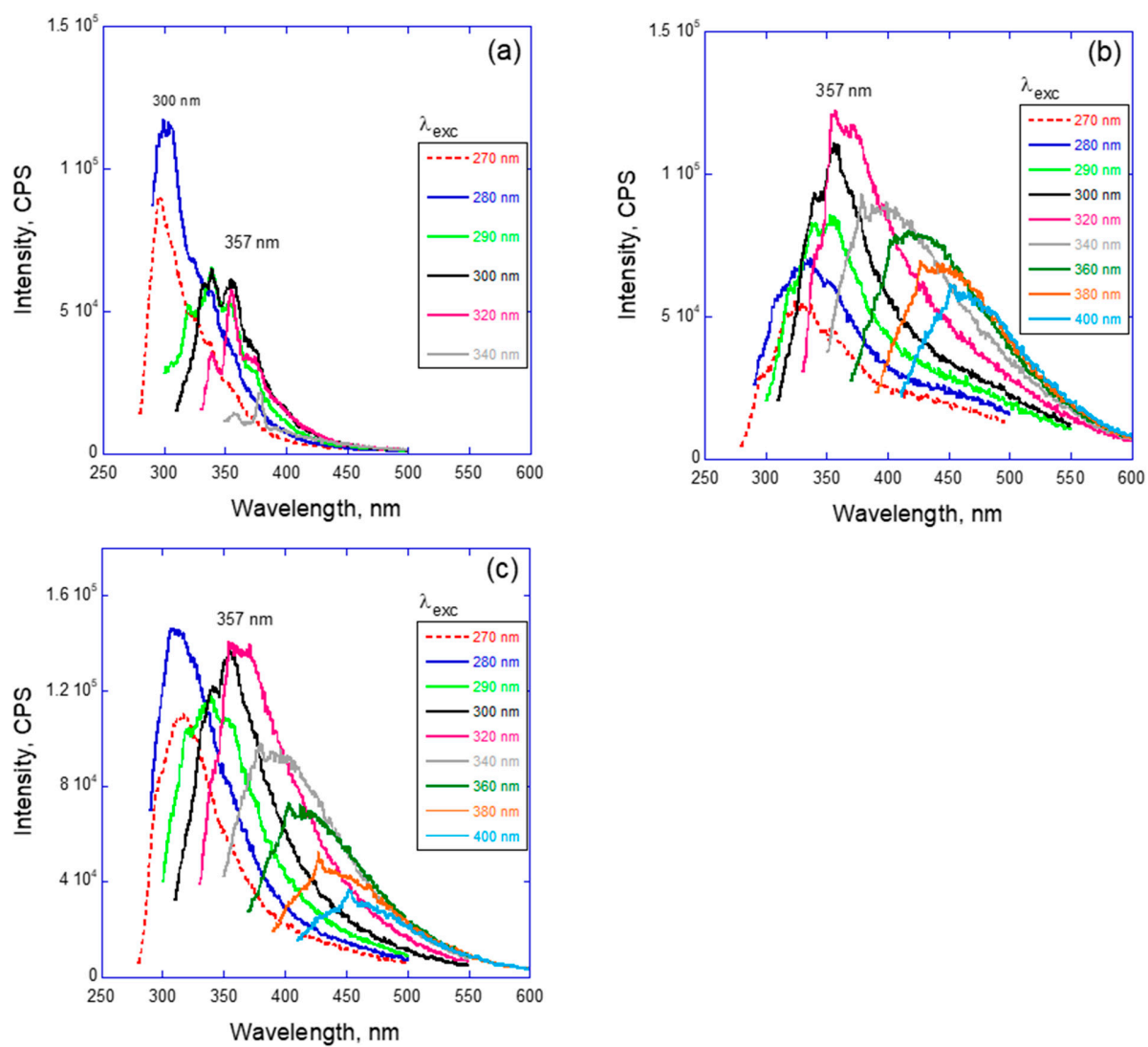


Figure S3. Fluorescence spectra of the original LVO500 oil (a) and that after thermal degradation at 200°C for one week in Ar atmosphere (b) or in the presence of oxygen (c) depending on the excitation wavelength.