

Electronic Supplementary Material (ESI) for RSC Advances

**Synthesis, characterization and biological evaluation of chromen and pyrano chromen-5-one derivatives fused into a novel collagen scaffold for tissue engineering application†**

Subramani Kandhasamy<sup>a</sup>, Giriprasath Ramanathan<sup>b</sup>, Jayabal Kamalraja<sup>a</sup>, Ravichandran Balaji<sup>c</sup>, Narayanasamy Mathivanan<sup>c</sup>, Uma Tiruchirapalli Sivagnanam<sup>b\*</sup>and Paramasivan Thirumalai Perumal<sup>a\*</sup>

<sup>a</sup>*Organic Chemistry Division, CSIR-Central Leather Research Institute, Adyar, Chennai-600020, Tamilnadu, India. E-mail: [ptperumal@gmail.com](mailto:ptperumal@gmail.com), Tel: + 91 44 24437223; Fax: +91 44 24911539*

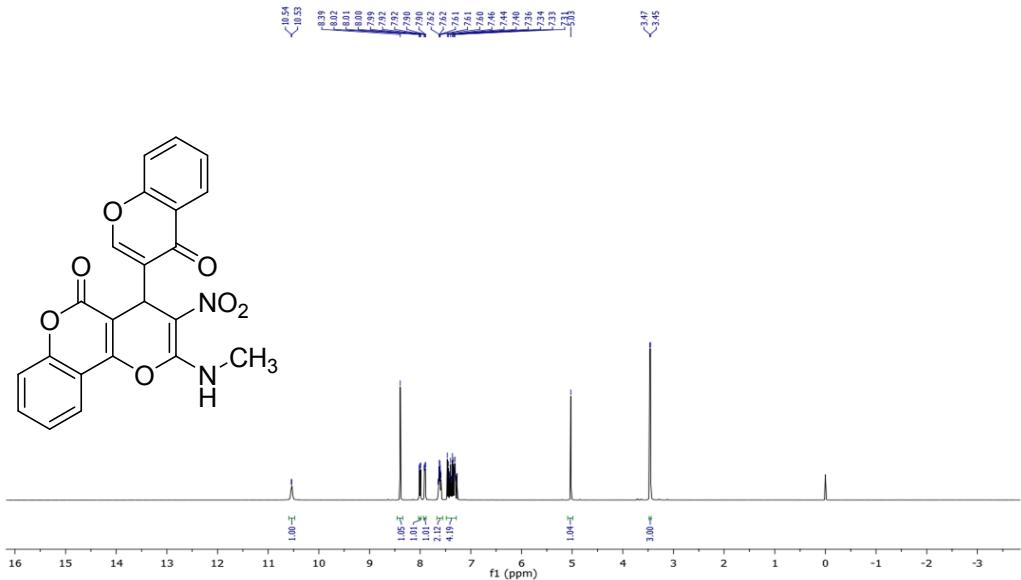
<sup>b</sup>*Bioproducts Lab, CSIR-Central Leather Research Institute, Chennai-600020, Tamilnadu, India. E-mail: [suma67@gmail.com](mailto:suma67@gmail.com); Tel: + 91 44 24420709; Fax: +91 44 24911589*

<sup>c</sup>*Biocontrol and Microbial Metabolites Lab, Centre for Advanced Studies in Botany, University of Madras, Maraimalai Campus, Guindy, Chennai – 600 025, Tamilnadu, India.*

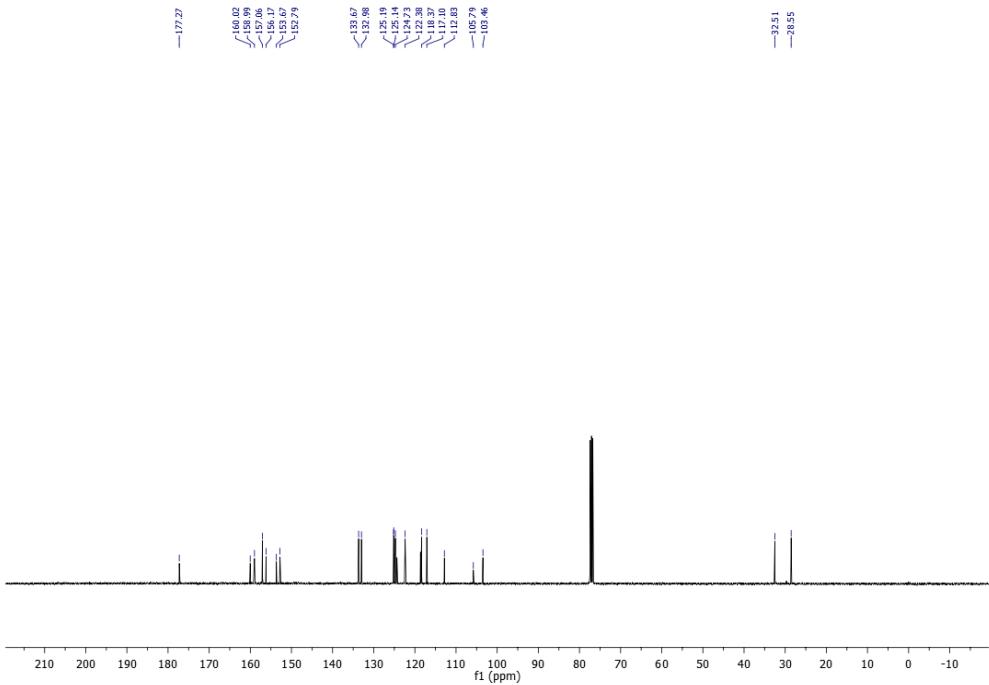
Contents:

Spectral Data (<sup>1</sup>H, <sup>13</sup>CNMR and HRMS)

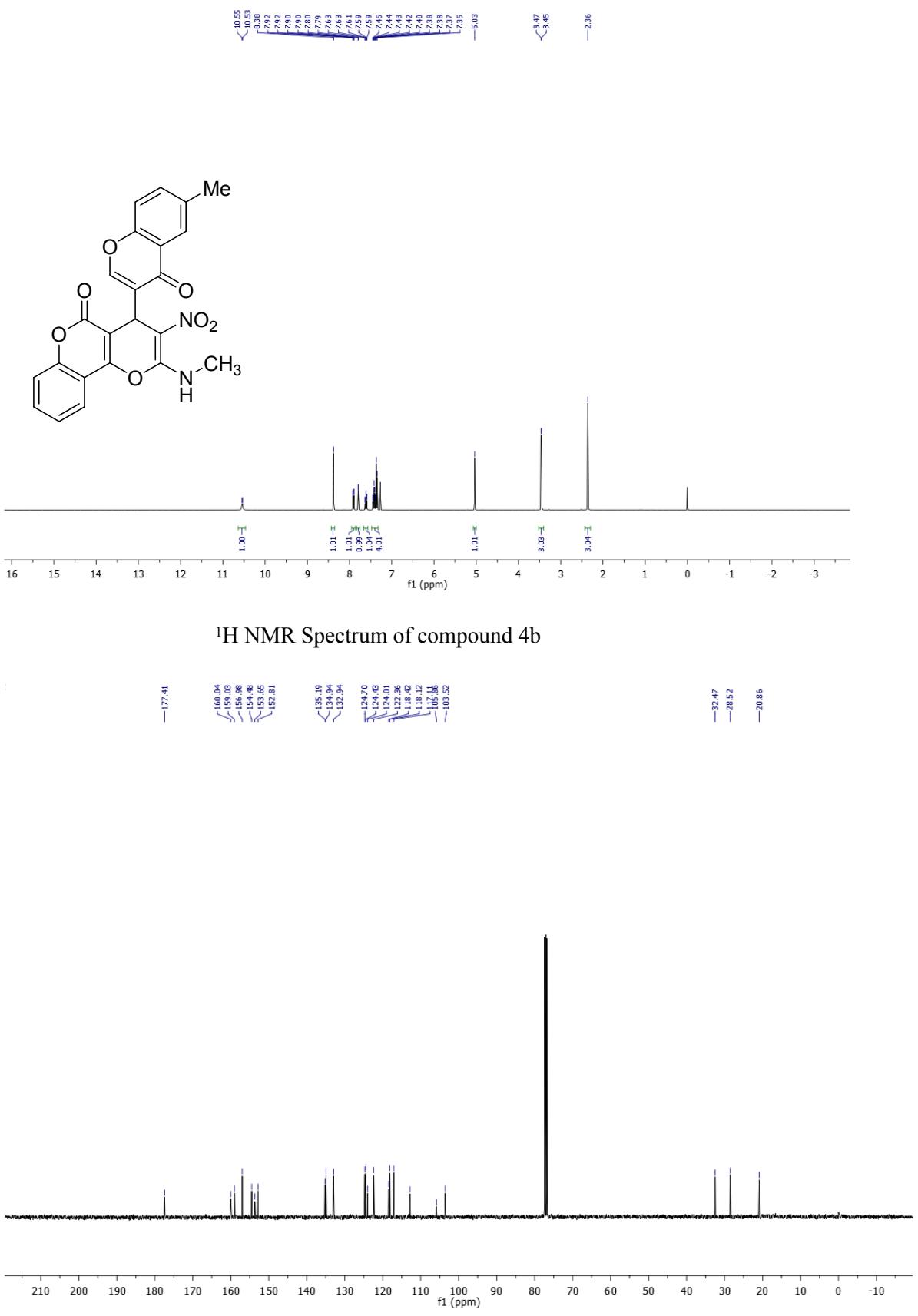
Page 2-22

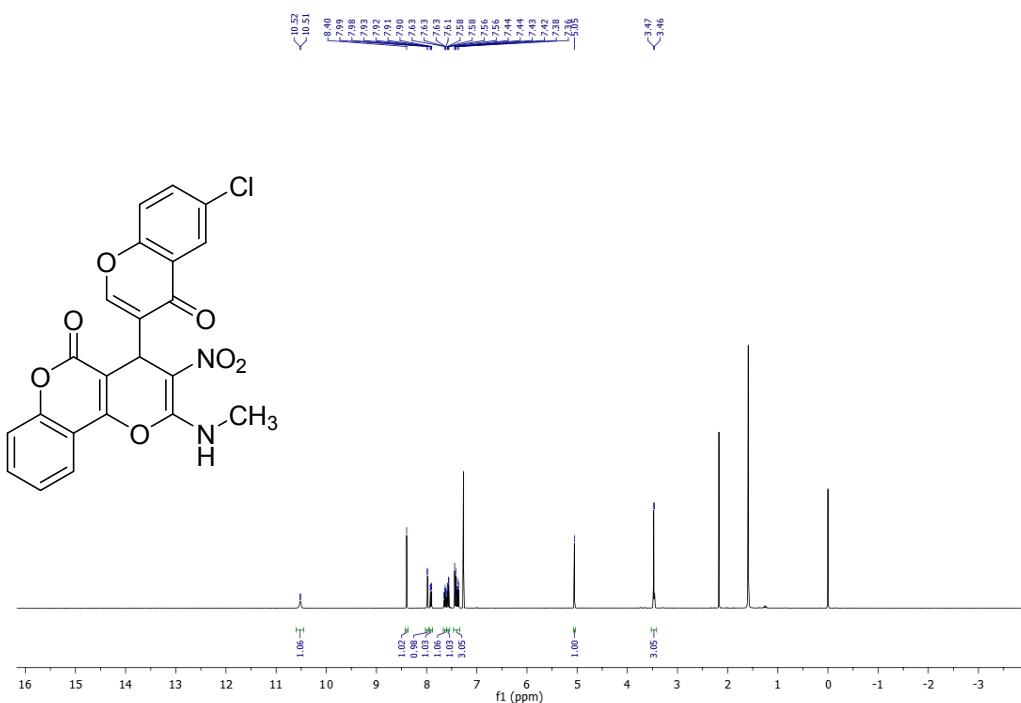


<sup>1</sup>H NMR Spectrum of compound 4a

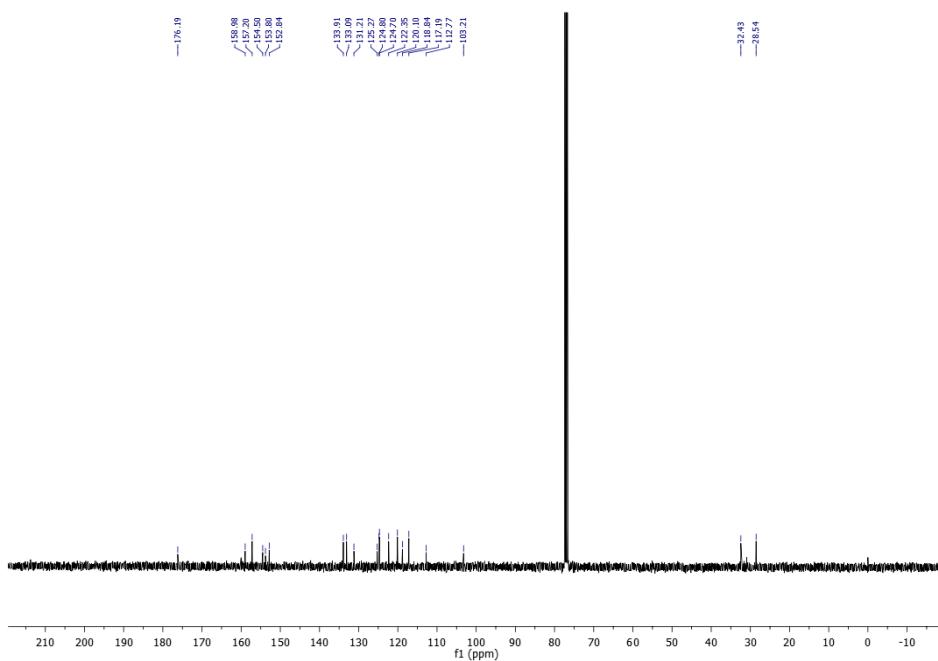


<sup>13</sup>C NMR Spectrum of compound 4a

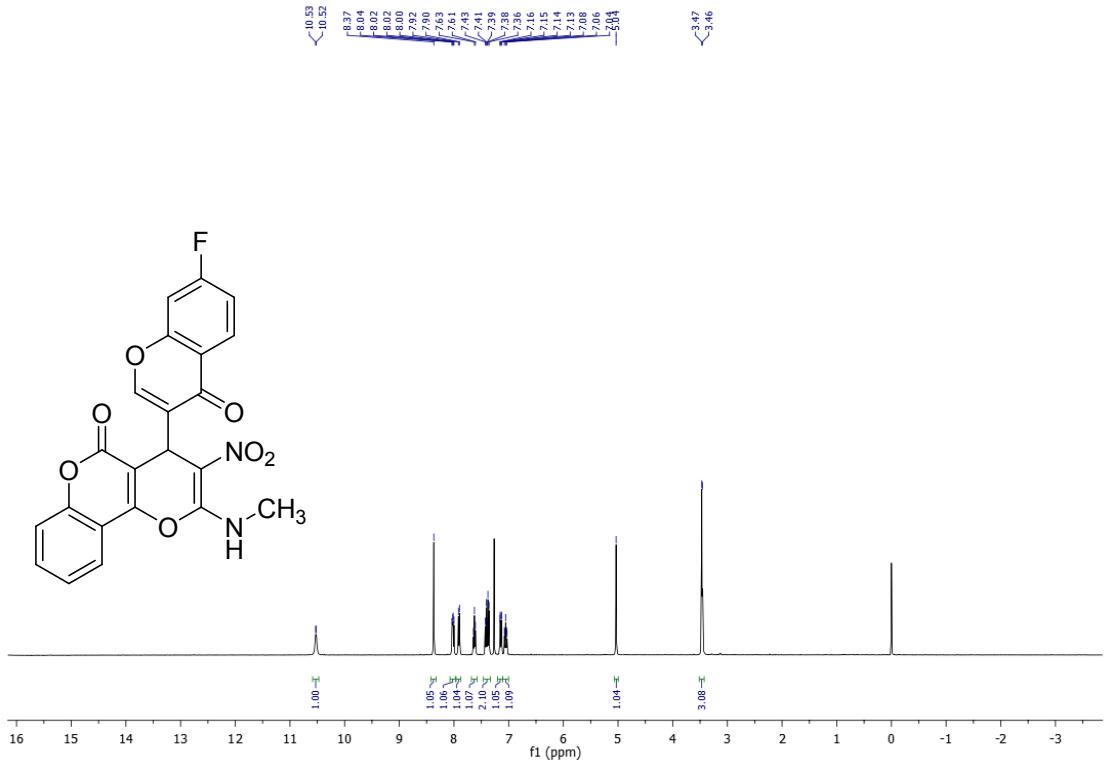
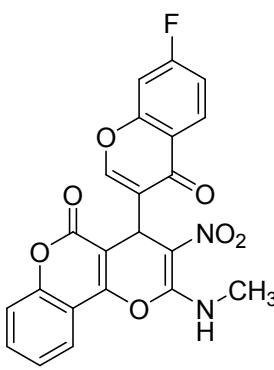




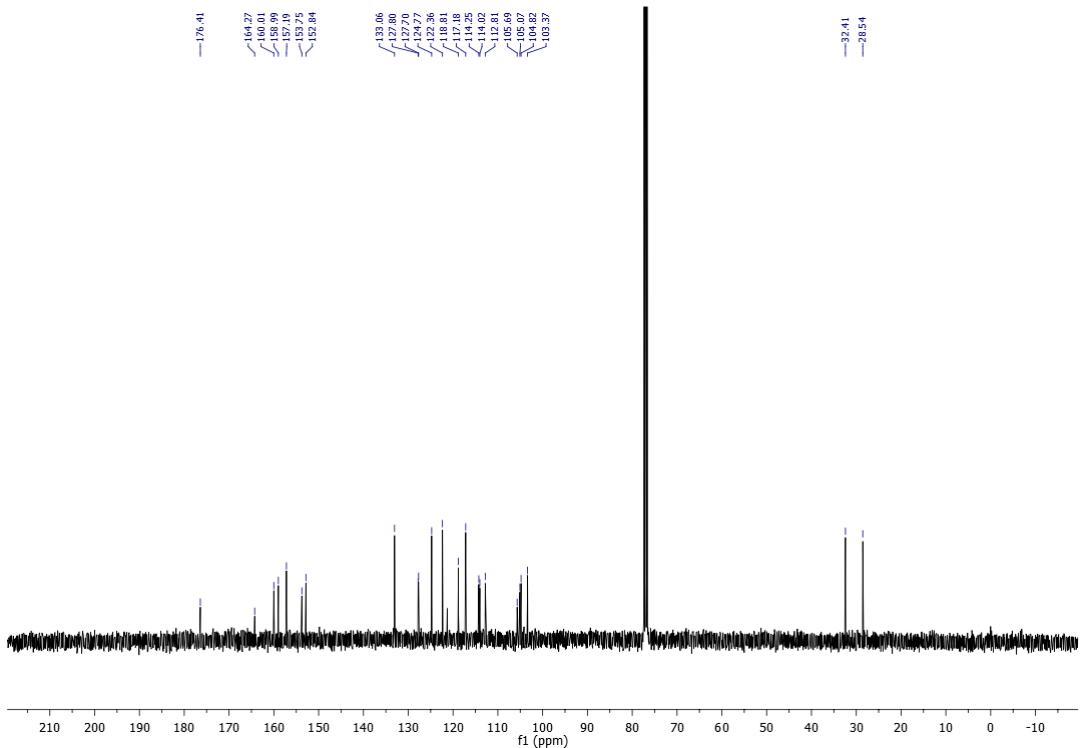
<sup>1</sup>H NMR Spectrum of compound 4c



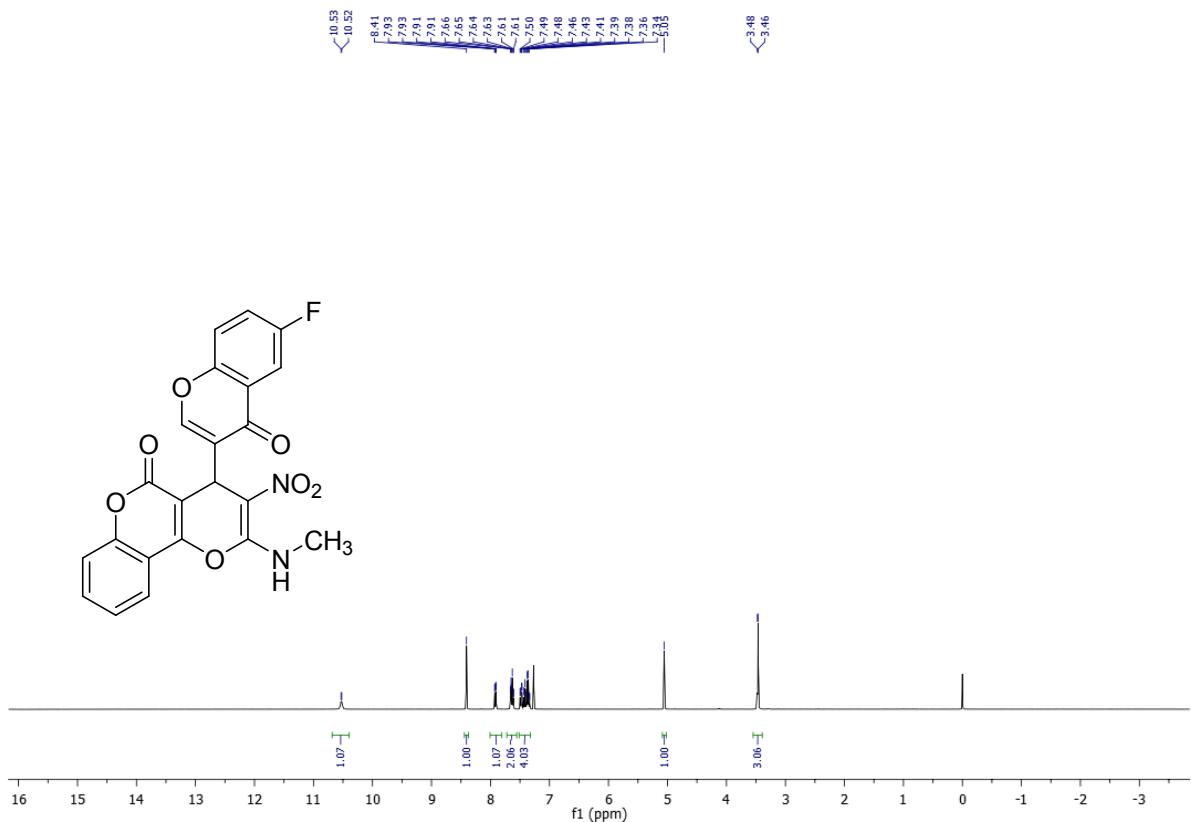
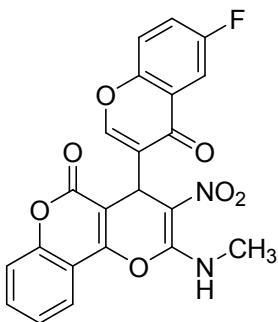
<sup>13</sup>C NMR Spectrum of compound 4c



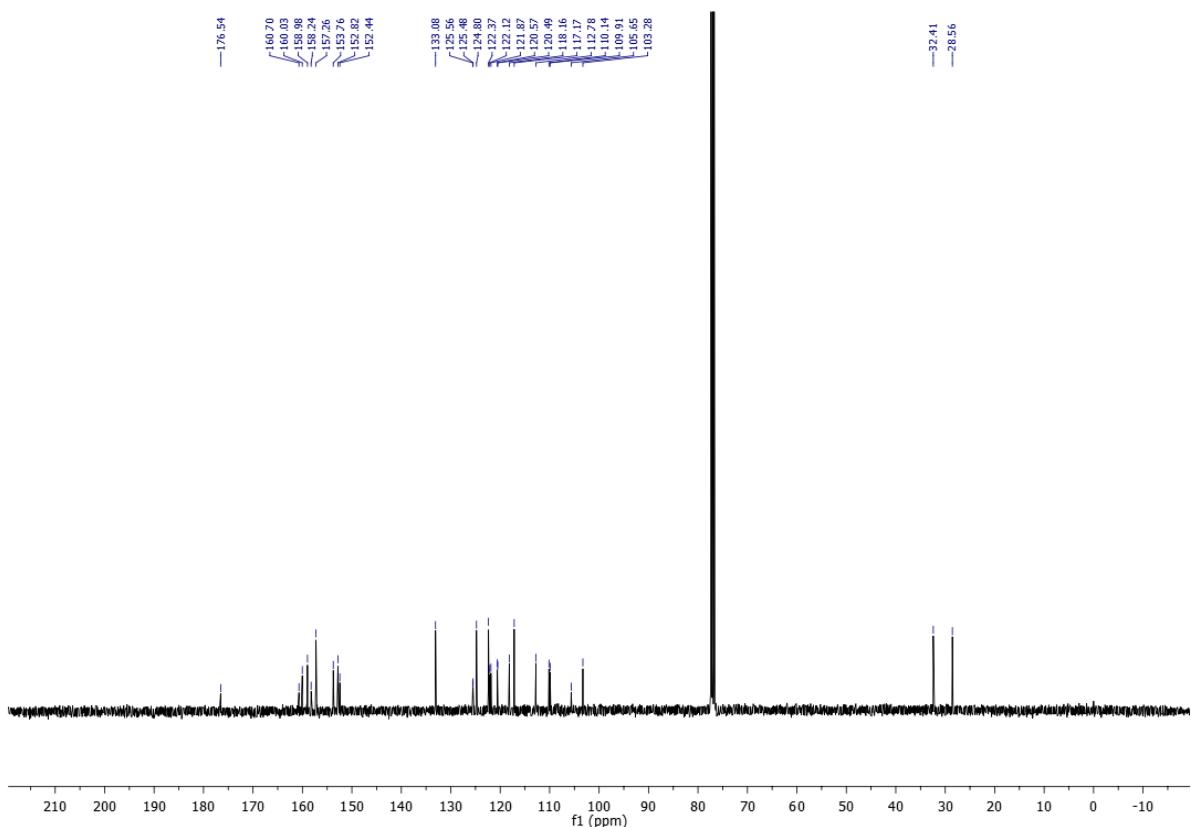
<sup>1</sup>H NMR Spectrum of compound 4d



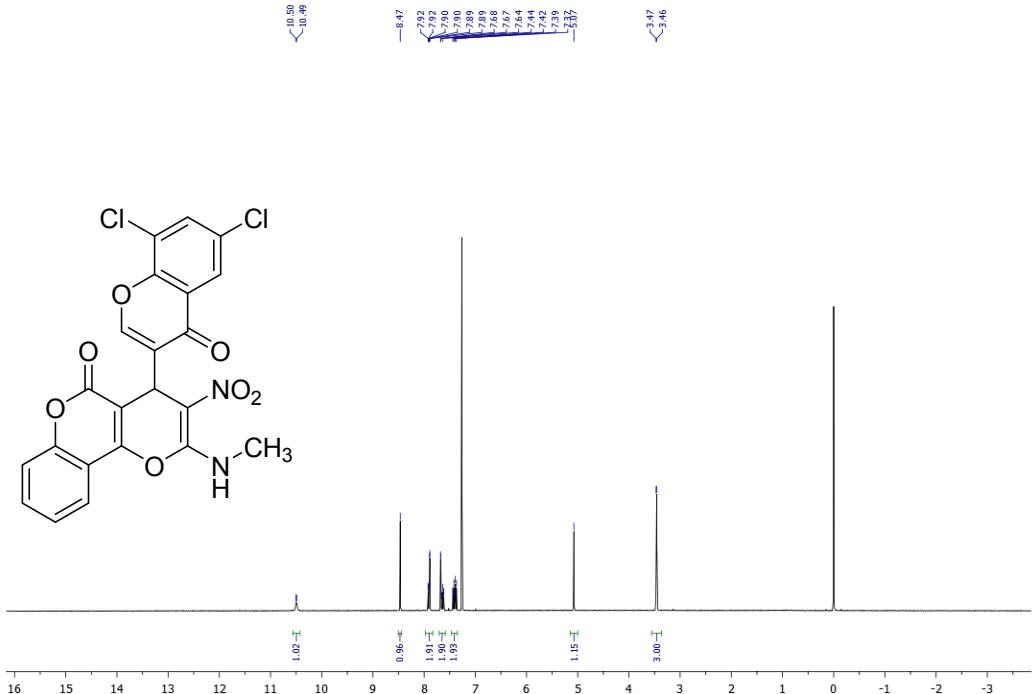
### <sup>13</sup>C NMR Spectrum of compound 4d

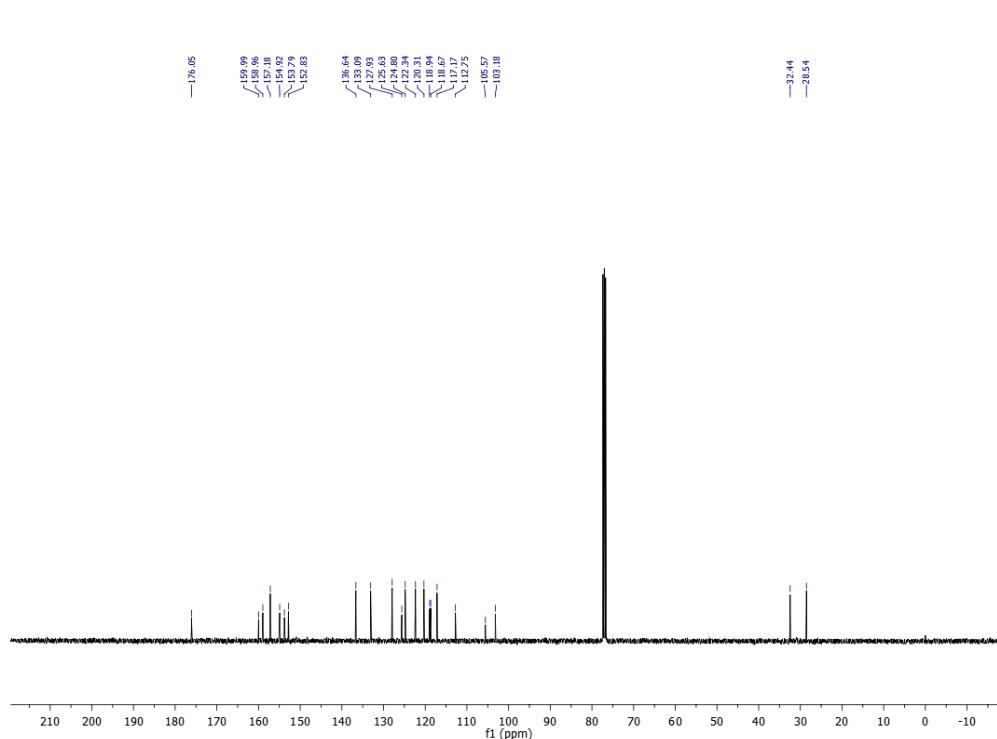
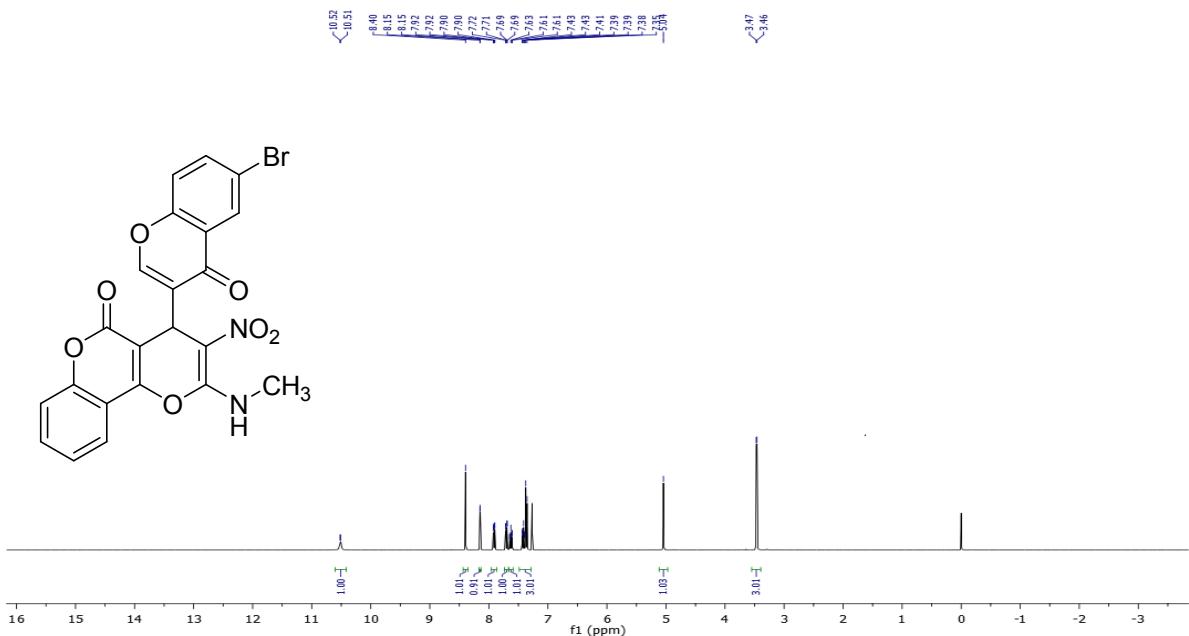


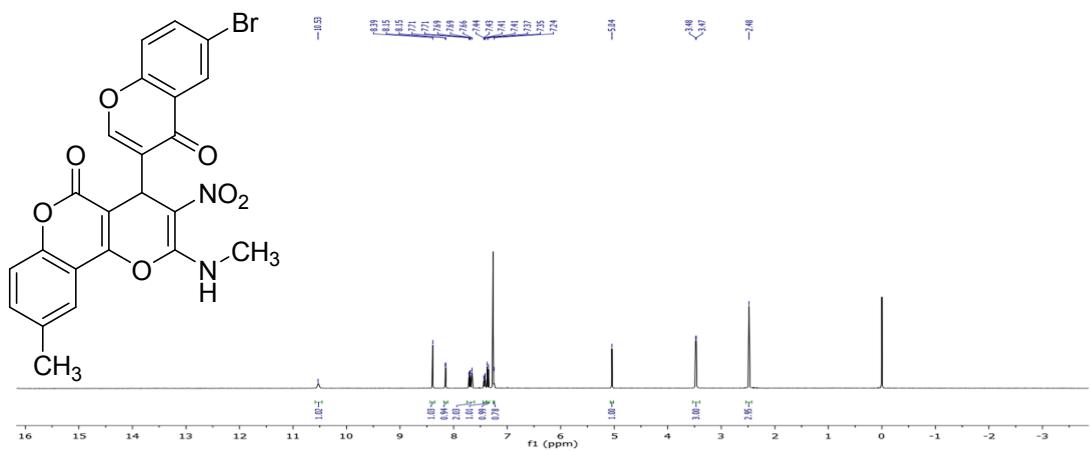
### <sup>1</sup>H NMR Spectrum of compound 4e



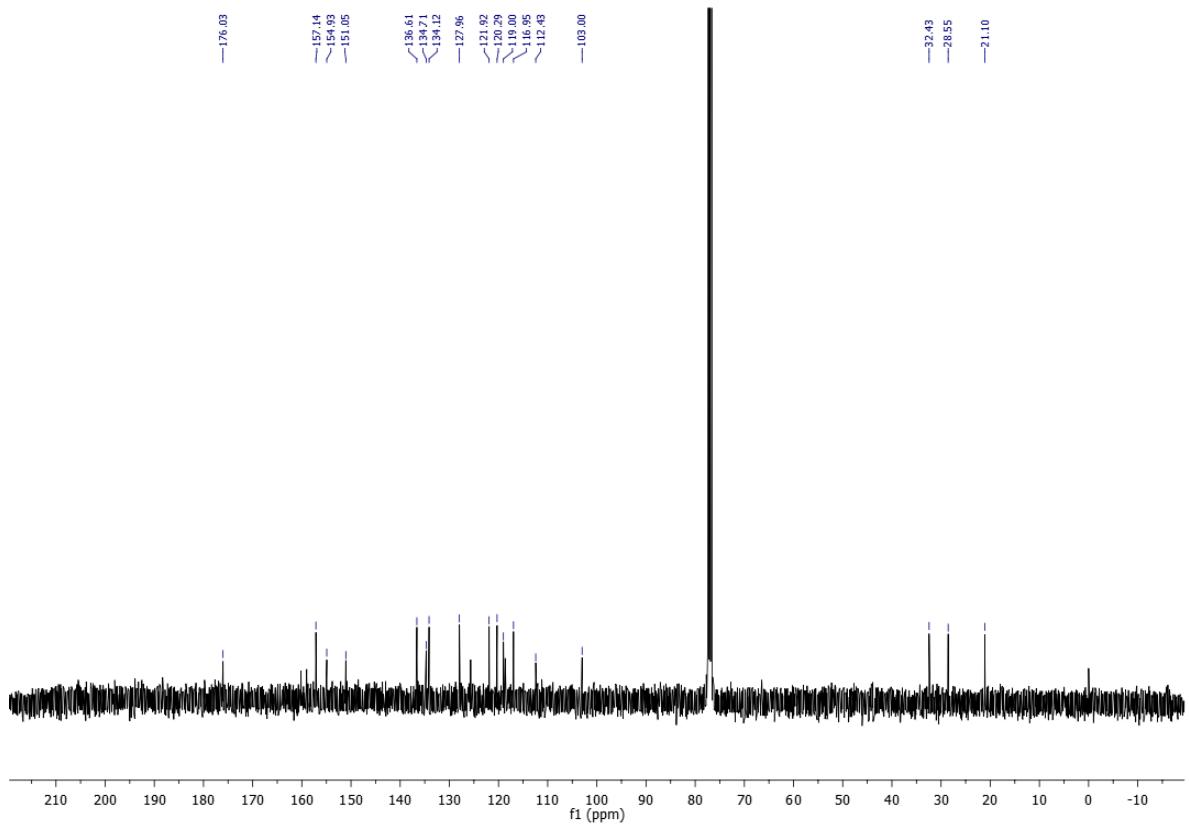
### <sup>13</sup>C NMR Spectrum of compound 4e



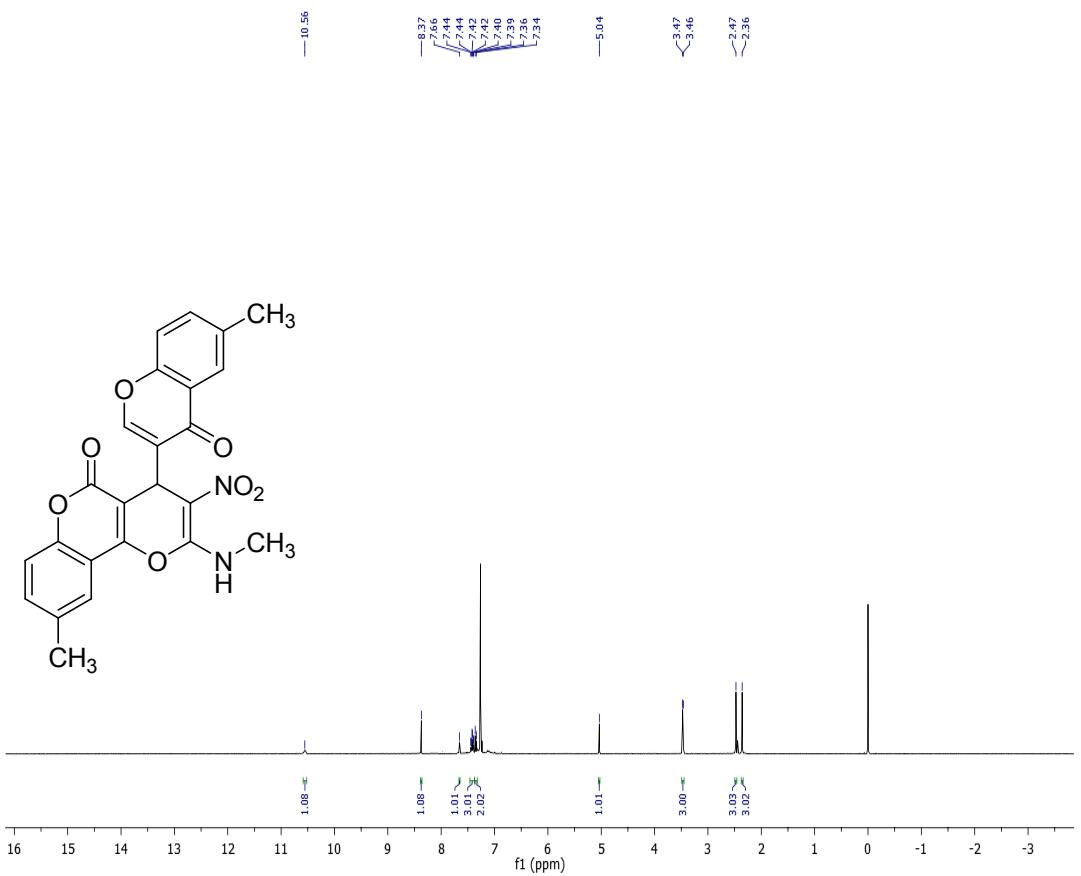




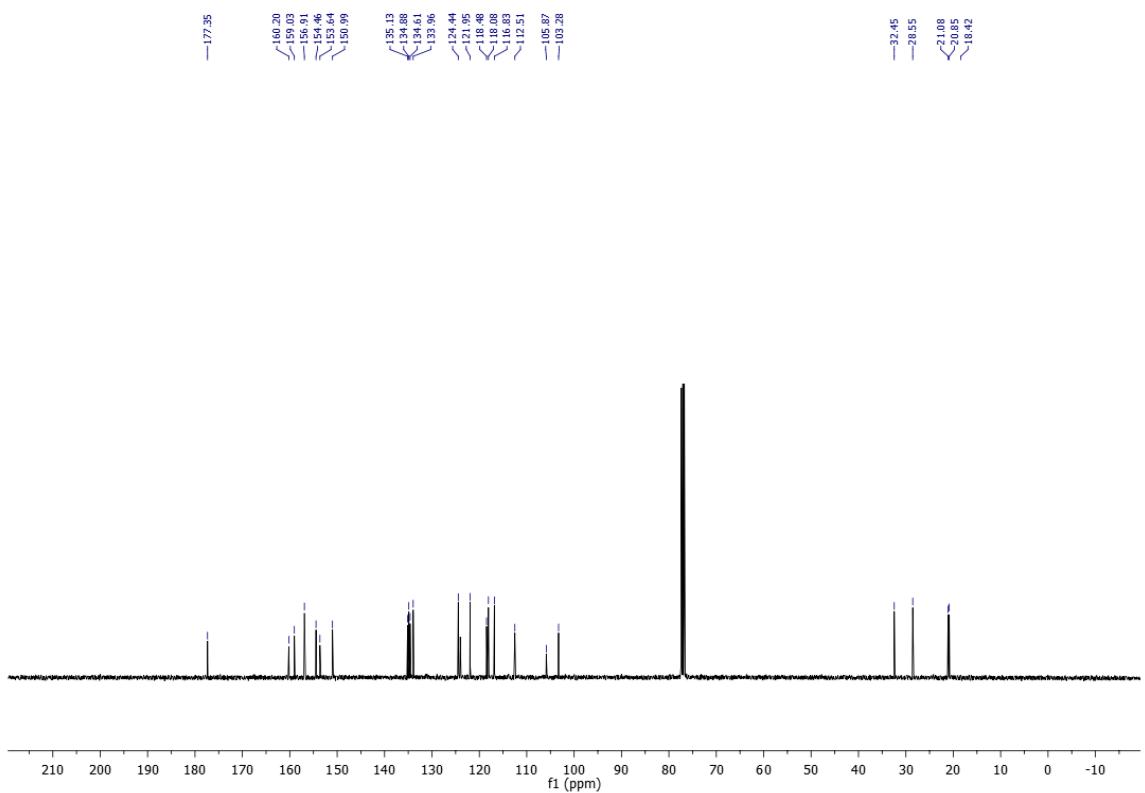
$^1\text{H}$  NMR Spectrum of compound 4h



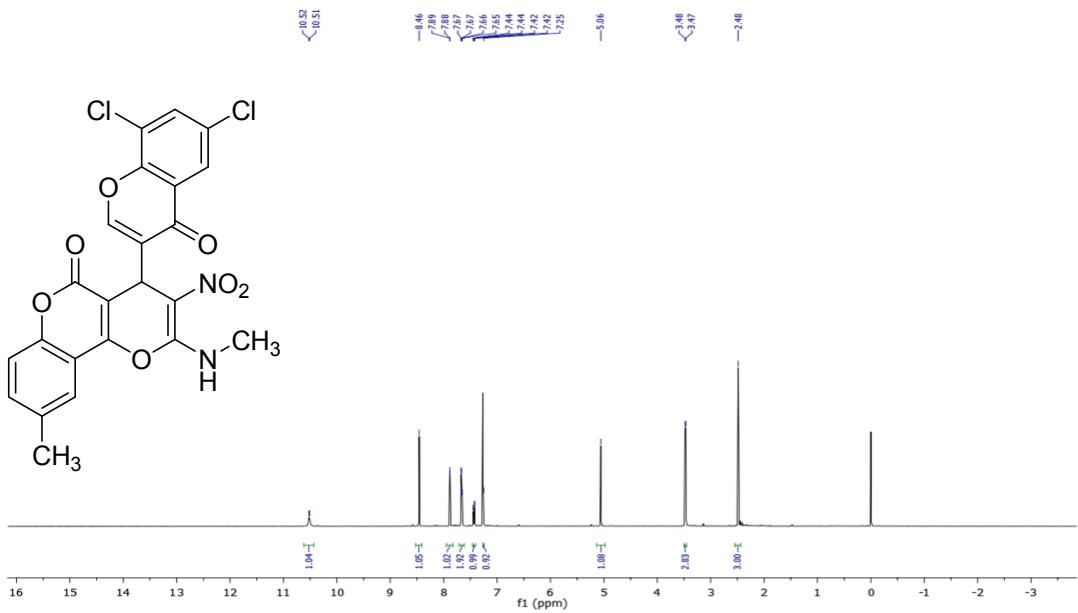
$^{13}\text{C}$  NMR Spectrum of compound 4h



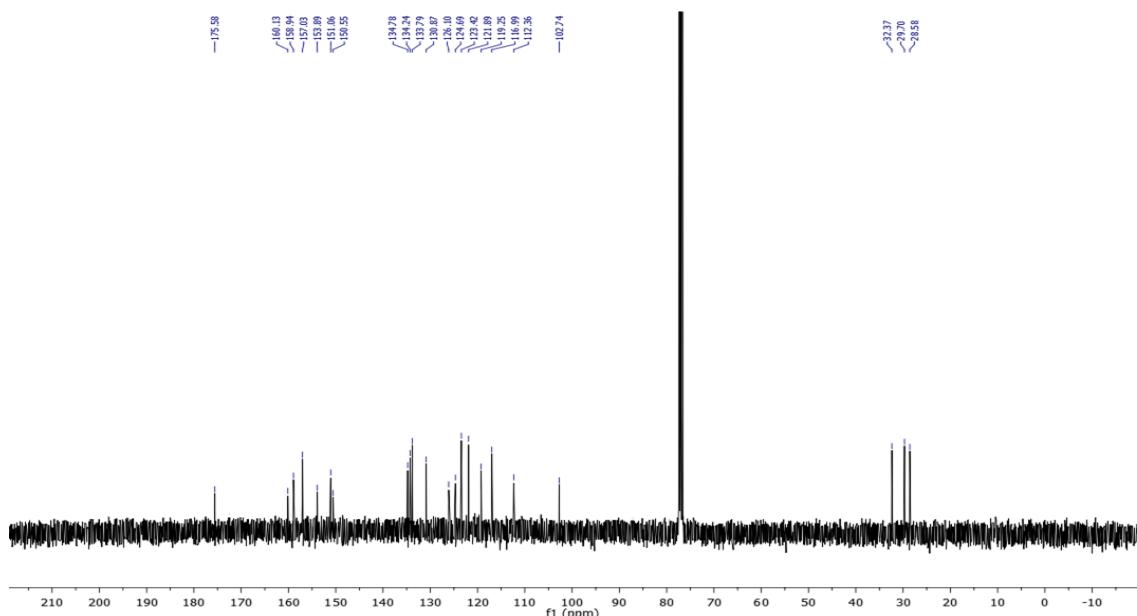
<sup>1</sup>H NMR Spectrum of compound 4i



$^{13}\text{C}$  NMR Spectrum of compound 4i



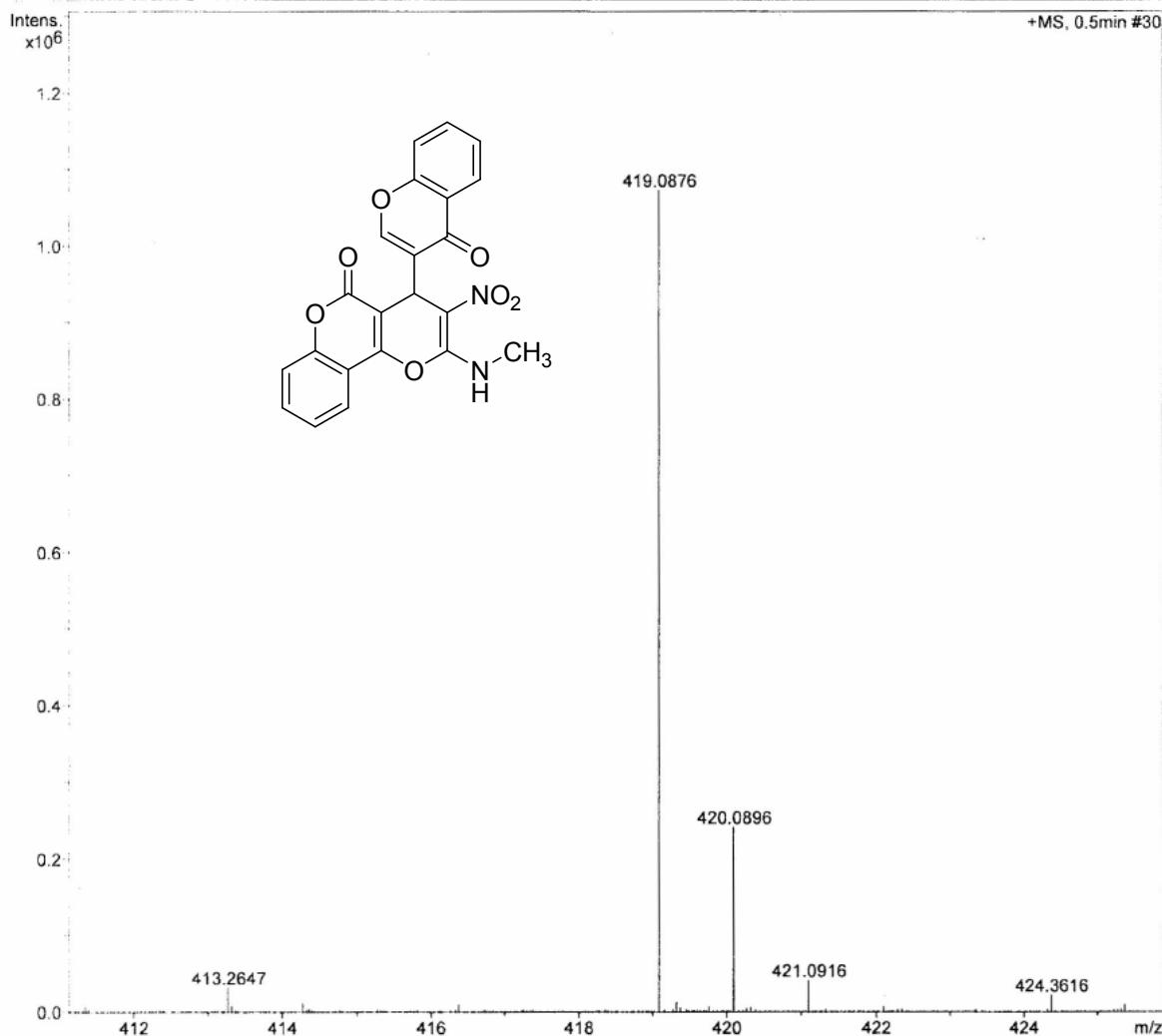
### <sup>1</sup>H NMR Spectrum of compound 4j



### <sup>13</sup>C NMR Spectrum of compound 4j

**Acquisition Parameter**

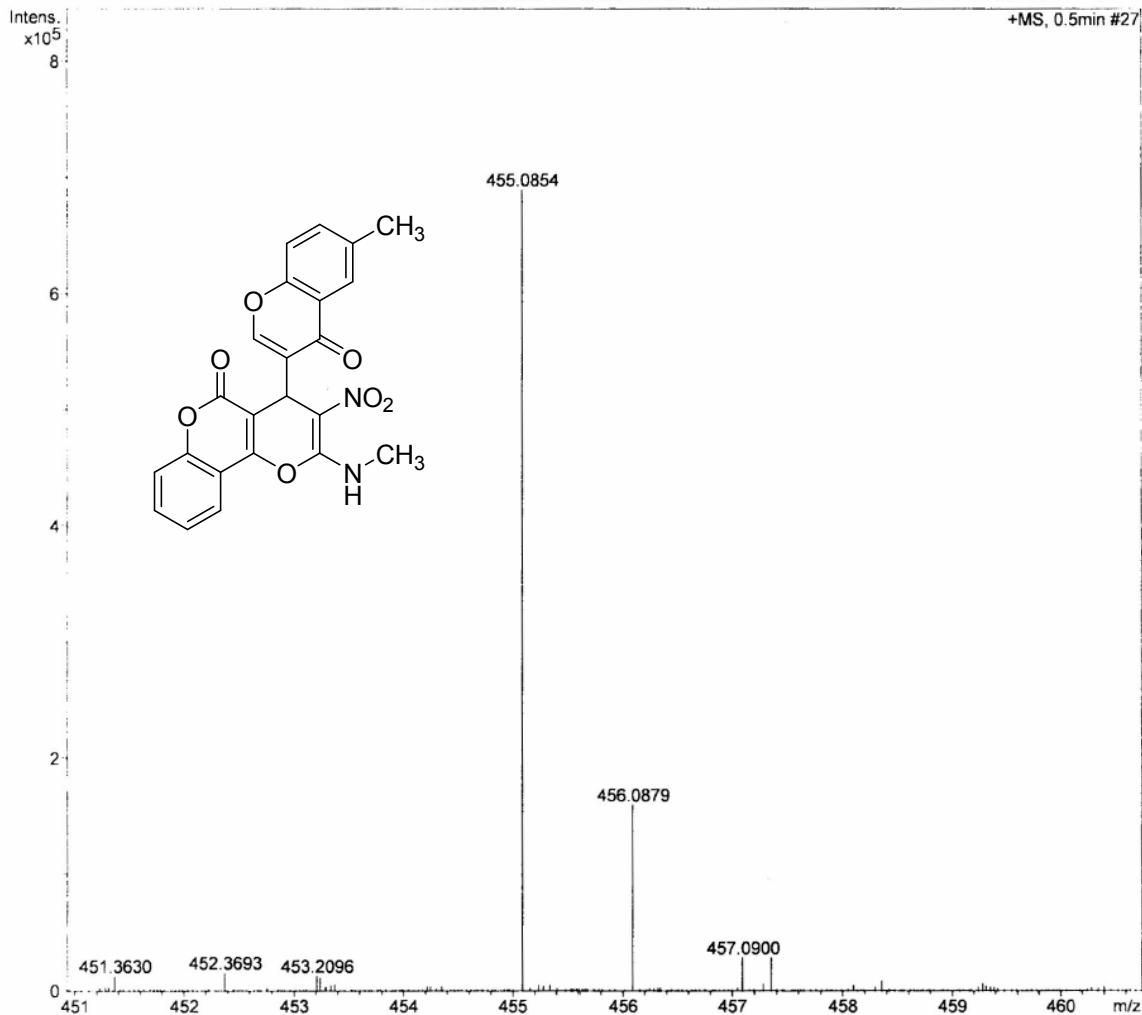
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Scan End	1700 m/z	Set Collision Cell RF	150.0 Vpp	Set Divert Valve	Waste



HRMS Spectrum of compound 4a

**Acquisition Parameter**

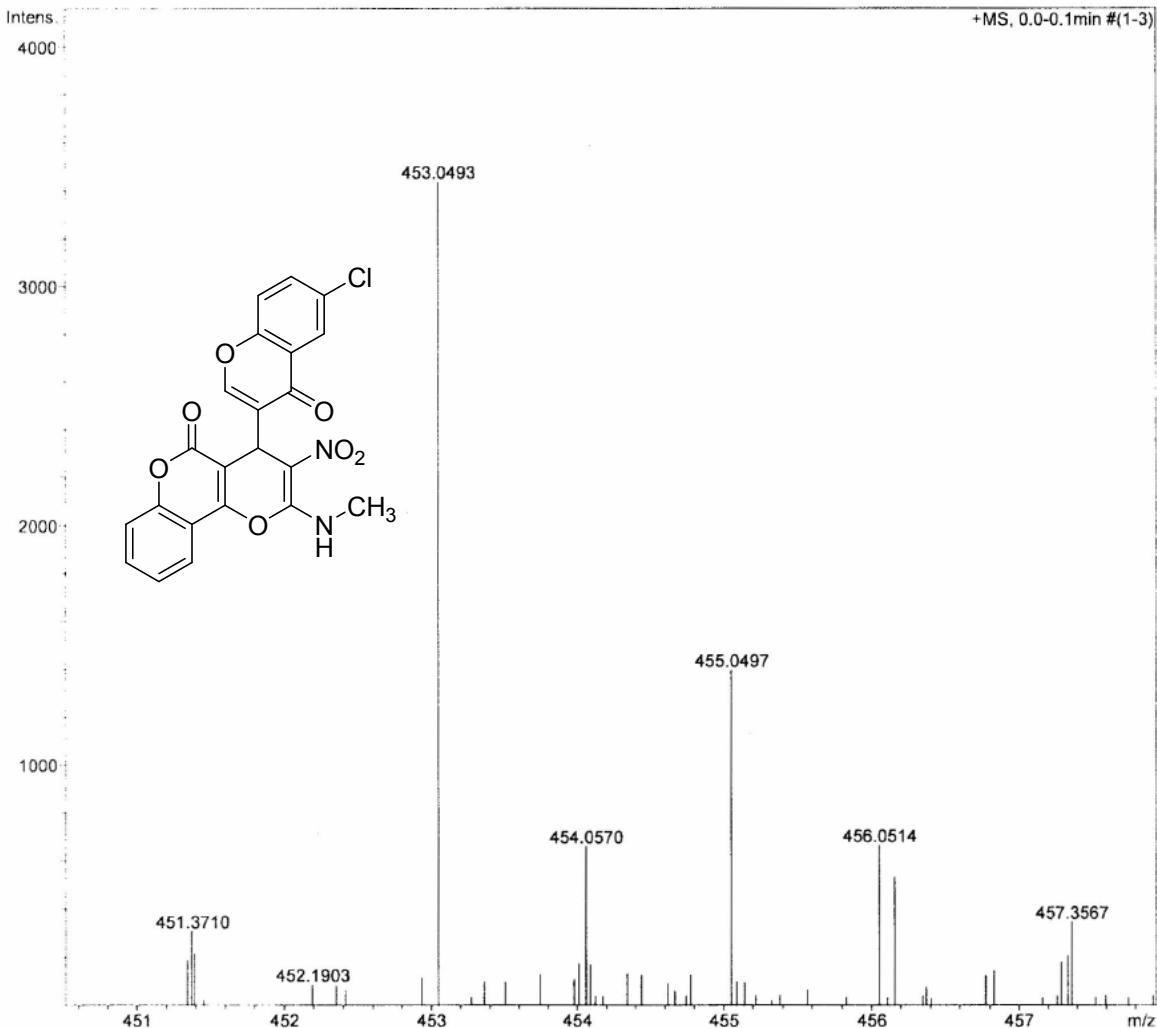
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Scan End	1500 m/z	Set Collision Cell RF	350.0 Vpp	Set Divert Valve	Waste



HRMS Spectrum of compound 4b

**Acquisition Parameter**

Source Type	ESI	Ion Polarity	Positive	Set Nebulizer	4.4 psi
Focus	Not active	Set Capillary	3800 V	Set Dry Heater	180 °C
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Scan End	700 m/z	Set Collision Cell RF	350.0 Vpp	Set Divert Valve	Waste



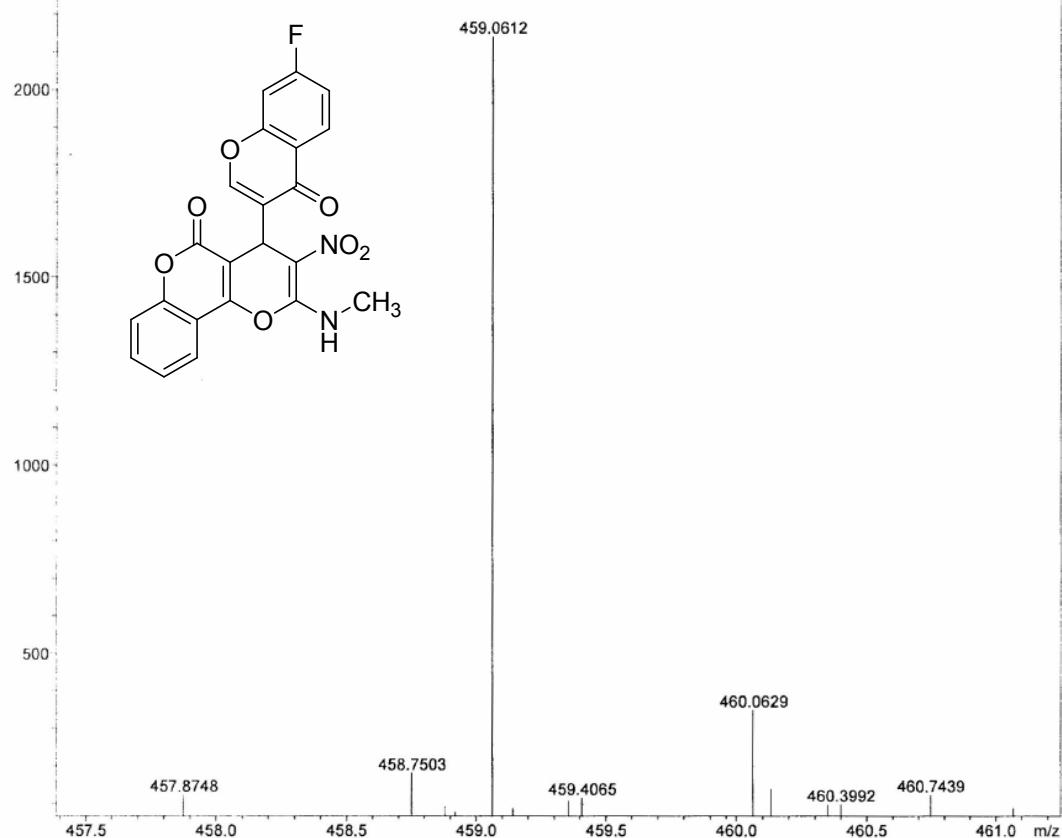
HRMS Spectrum of compound 4c

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Intens.

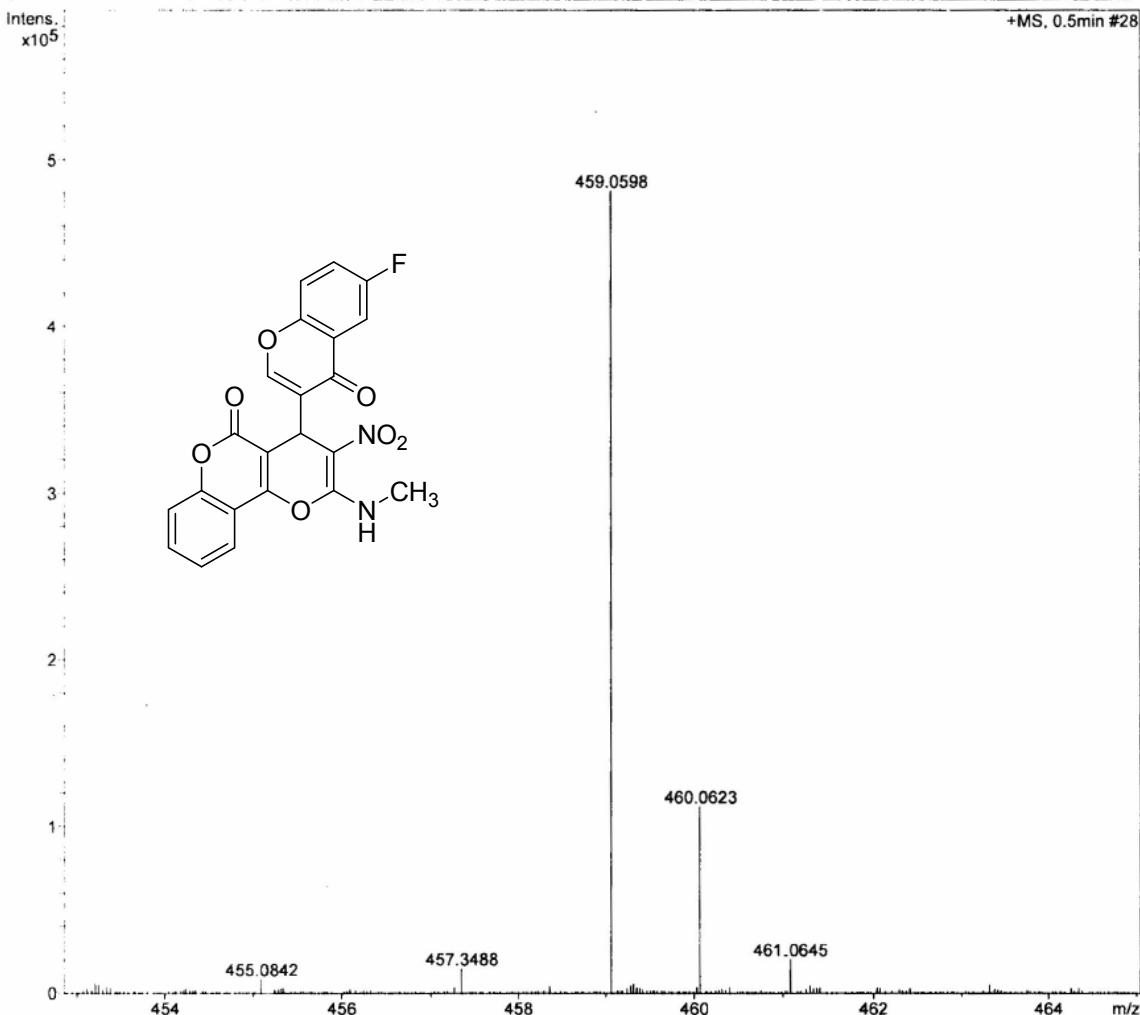
+MS, 0.1min #8



HRMS Spectrum of compound 4d

**Acquisition Parameter**

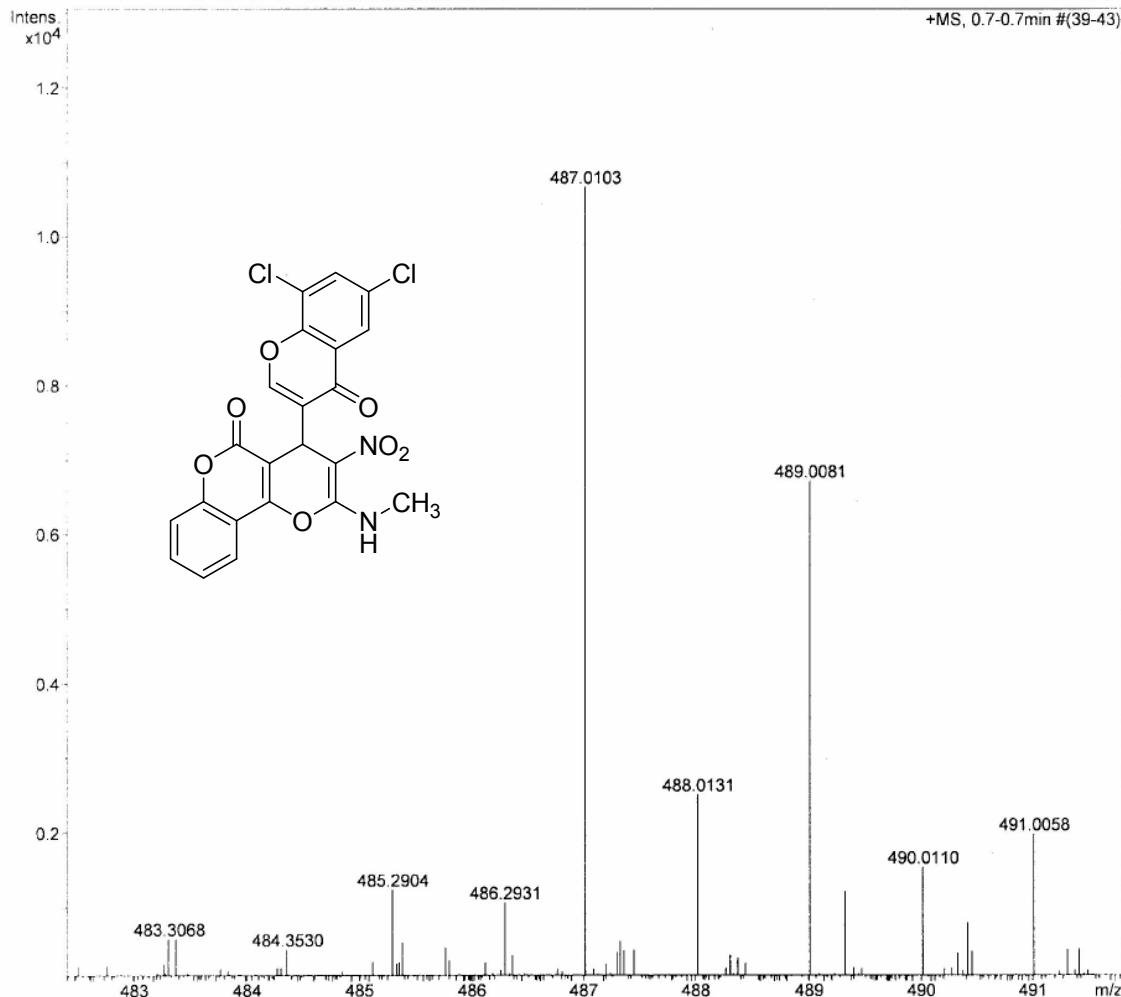
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HRMS Spectrum of compound 4e

**Acquisition Parameter**

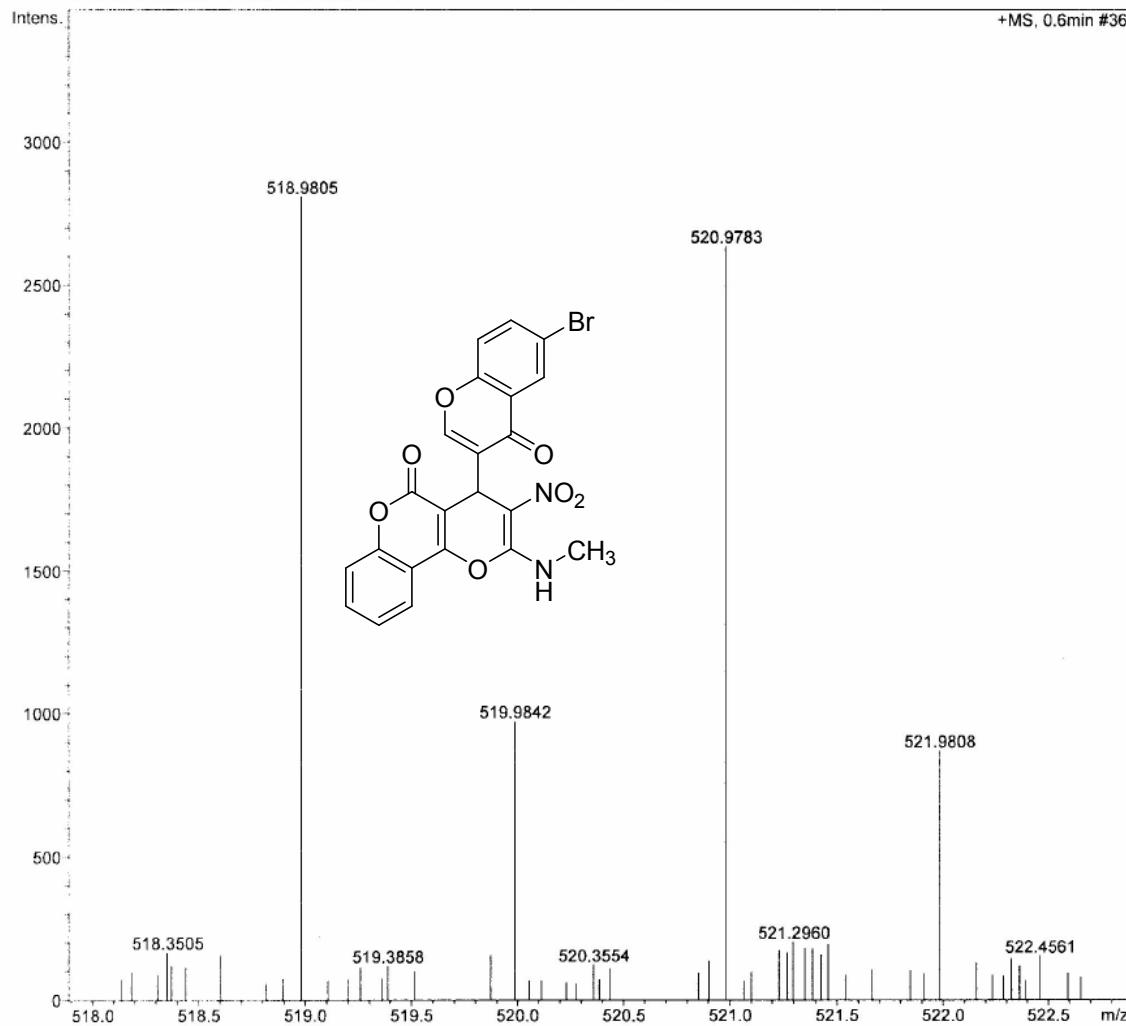
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HRMS Spectrum of compound 4f

**Acquisition Parameter**

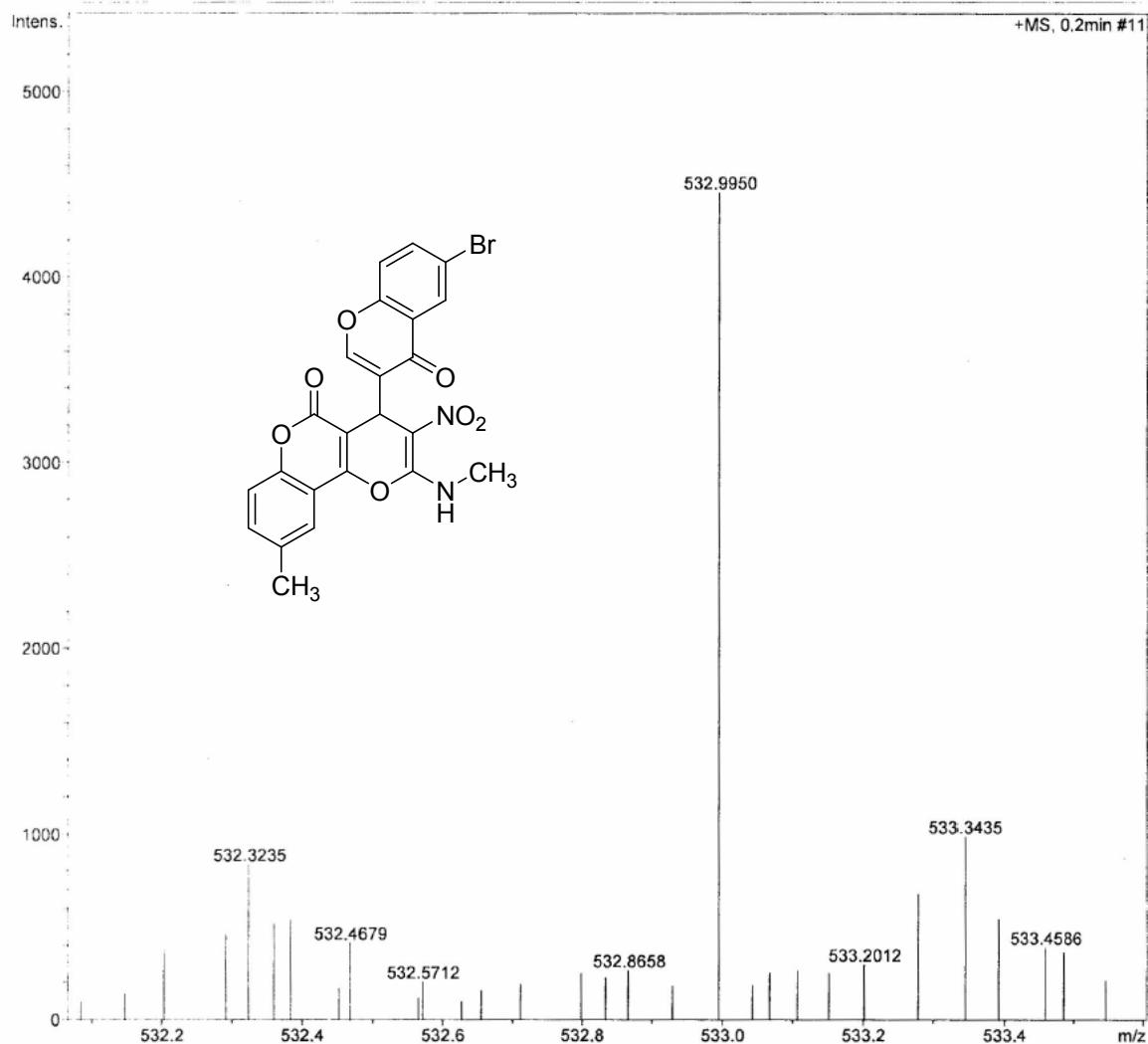
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HRMS Spectrum of compound 4g

**Acquisition Parameter**

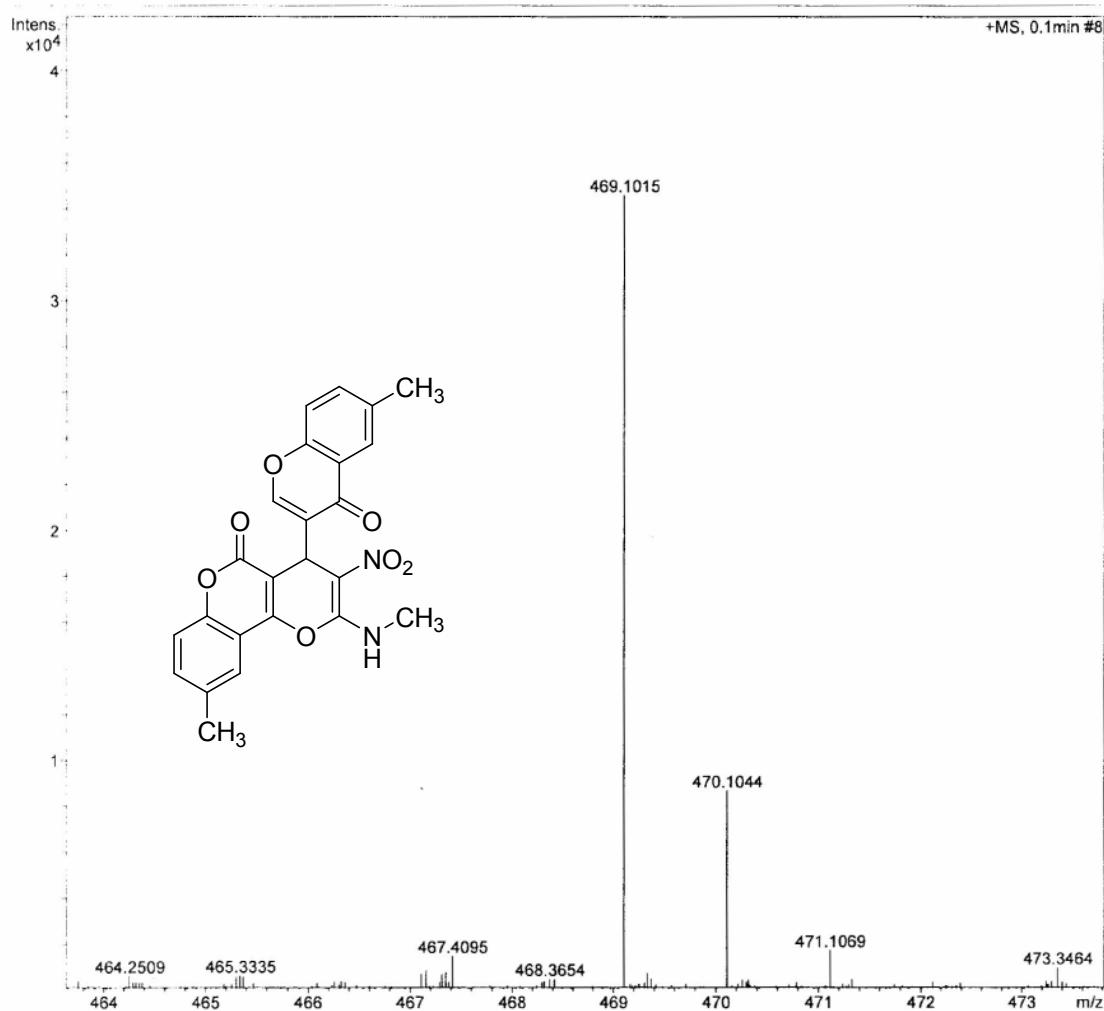
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HRMS Spectrum of compound 4h

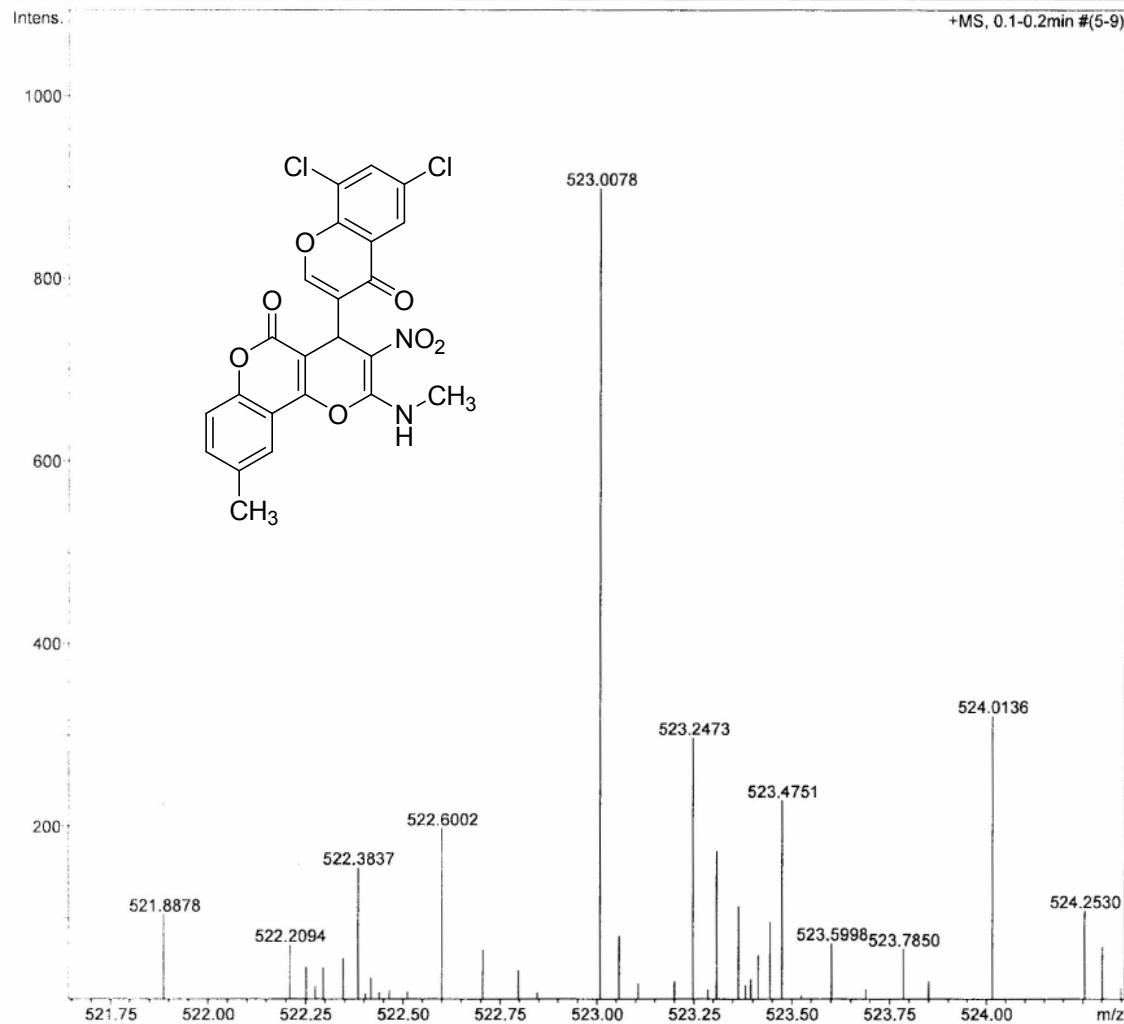
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Scan End	1800 m/z	Set Collision Cell RF	350.0 Vpp	Set Divert Valve	Waste



**Acquisition Parameter**

Source Type	ESI	Ion Polarity	Positive	Set Nebulizer	4.4 psi
Focus	Not active	Set Capillary	4500 V	Set Dry Heater	200 °C
Scan Begin	50 m/z	Set End Plate Offset	-500 V	Set Dry Gas	4.0 l/min
Scan End	1800 m/z	Set Collision Cell RF	350.0 Vpp	Set Divert Valve	Waste



HRMS Spectrum of compound 4j