

Supporting Information
for
An easy assembled fluorescent sensor for dicarboxylates
and acidic amino acids

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Spectral data of compounds 1, 2 and 4 and Job plot of sensor 1

1. Figure S1, Figure S2	S2
2. Figure S3.....	S3
3. Figure S4.....	S4
4. ¹ H NMR of compound 4	S5
5. ¹³ C NMR of compound 4.....	S6
6. HRMS of compound 4	S7
7. ¹ H NMR of Sensor 1	S8
8. ¹³ C NMR of Sensor 1	S9
9. HRMS of Sensor 1	S10
10. ¹ H NMR of Sensor 2	S11
11. ¹³ C NMR of Sensor 2	S12
12. HRMS of Sensor 2	S13

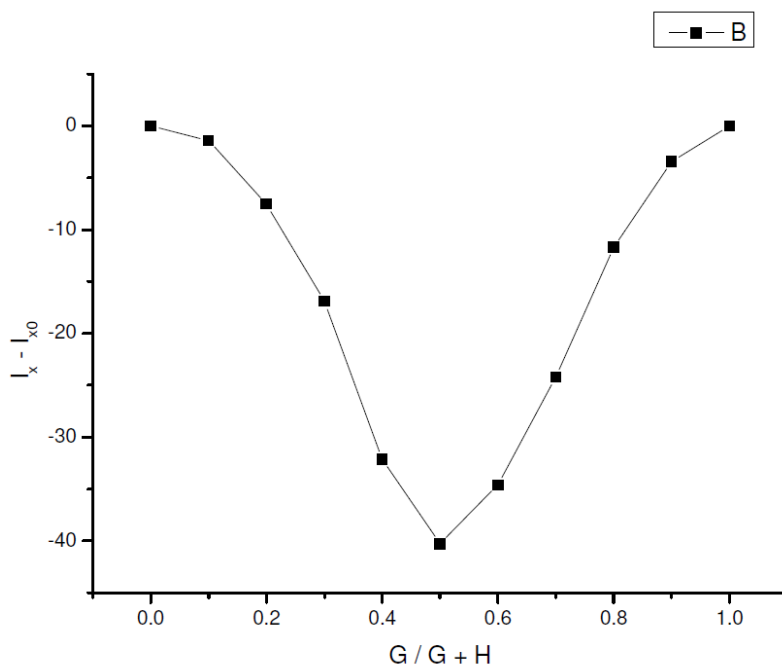


Figure S1: Job plot's of Sensor **1** (at 413 nm) with isophthalate anion.

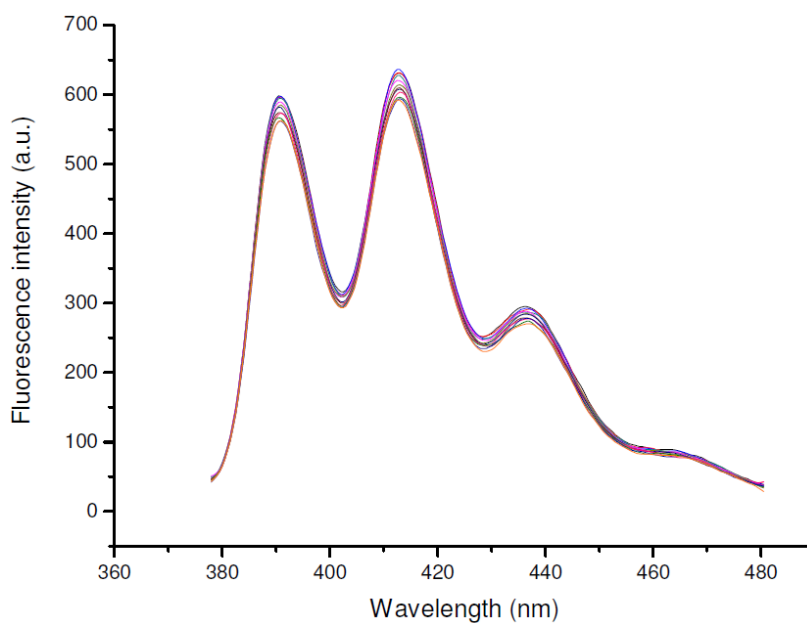
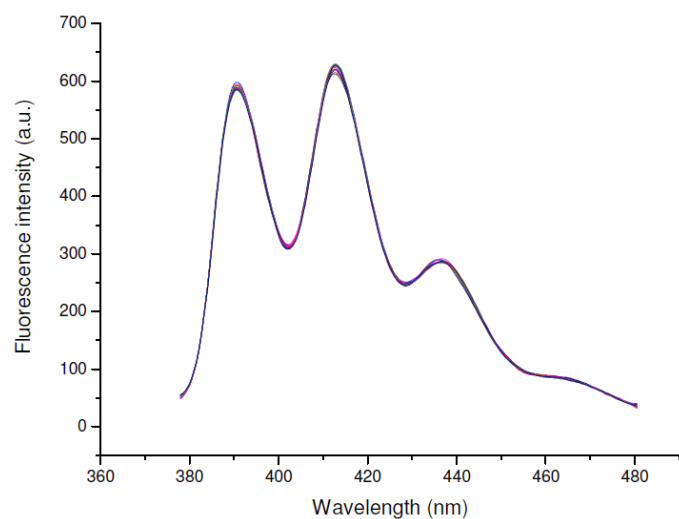
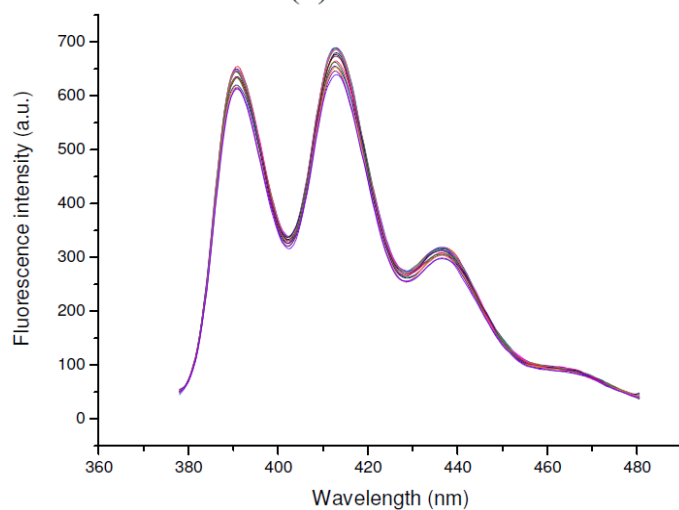


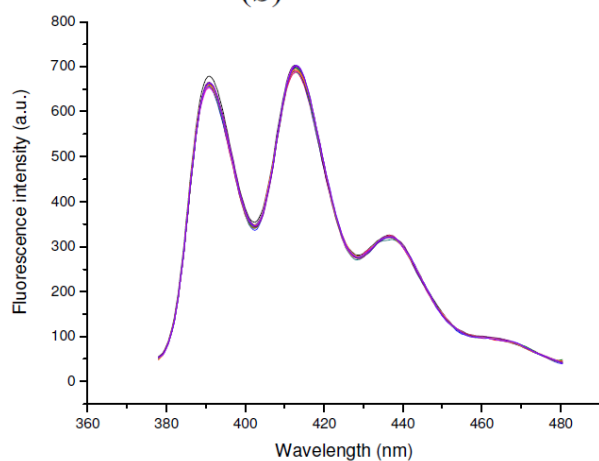
Figure S2: Changes in the fluorescence emission spectra of sensor **1** (5.0 x 10⁻⁶ M) upon addition of acetate in acetonitrile. Excitation wavelength = 366 nm.



(a)



(b)



(c)

Figure S3: Fluorescent titration of sensor **1** (5×10^{-6} M) with (a) dihydrogen phosphate; (b) nitrate; (c) bromide (0–20 equiv) in acetonitrile.

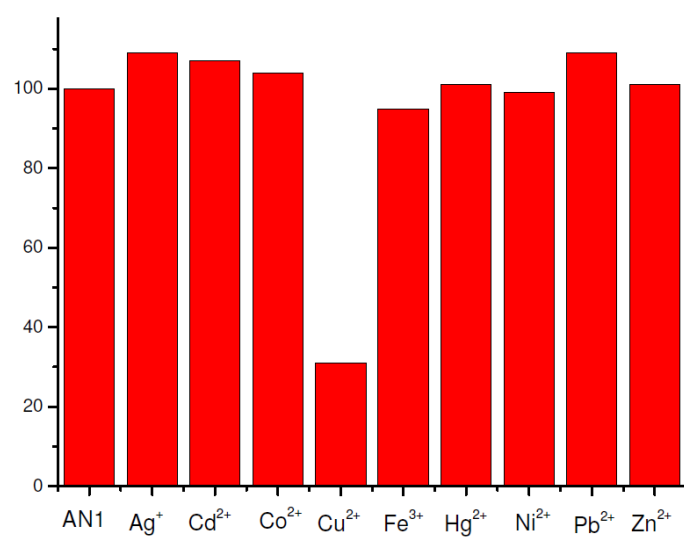
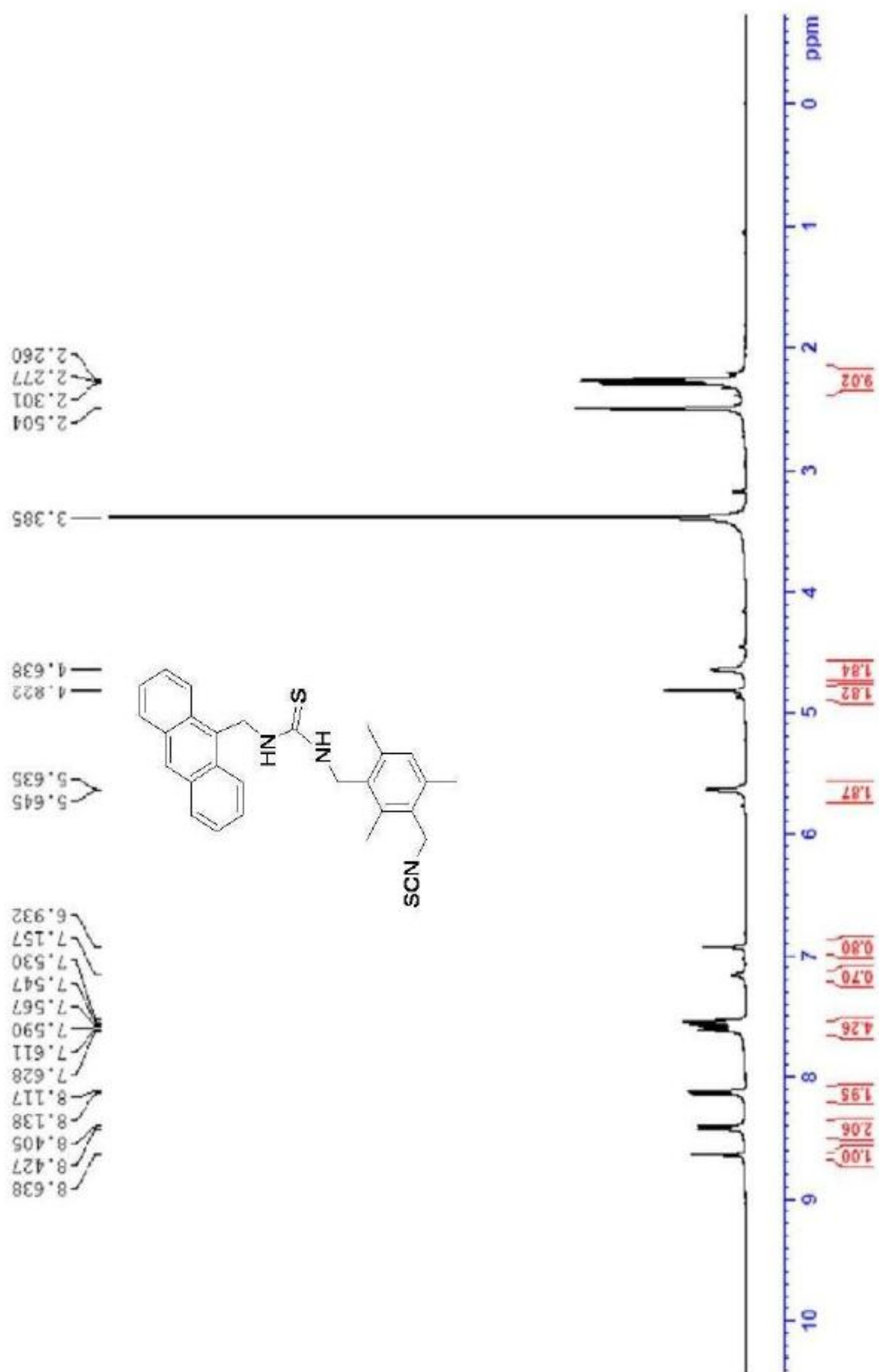
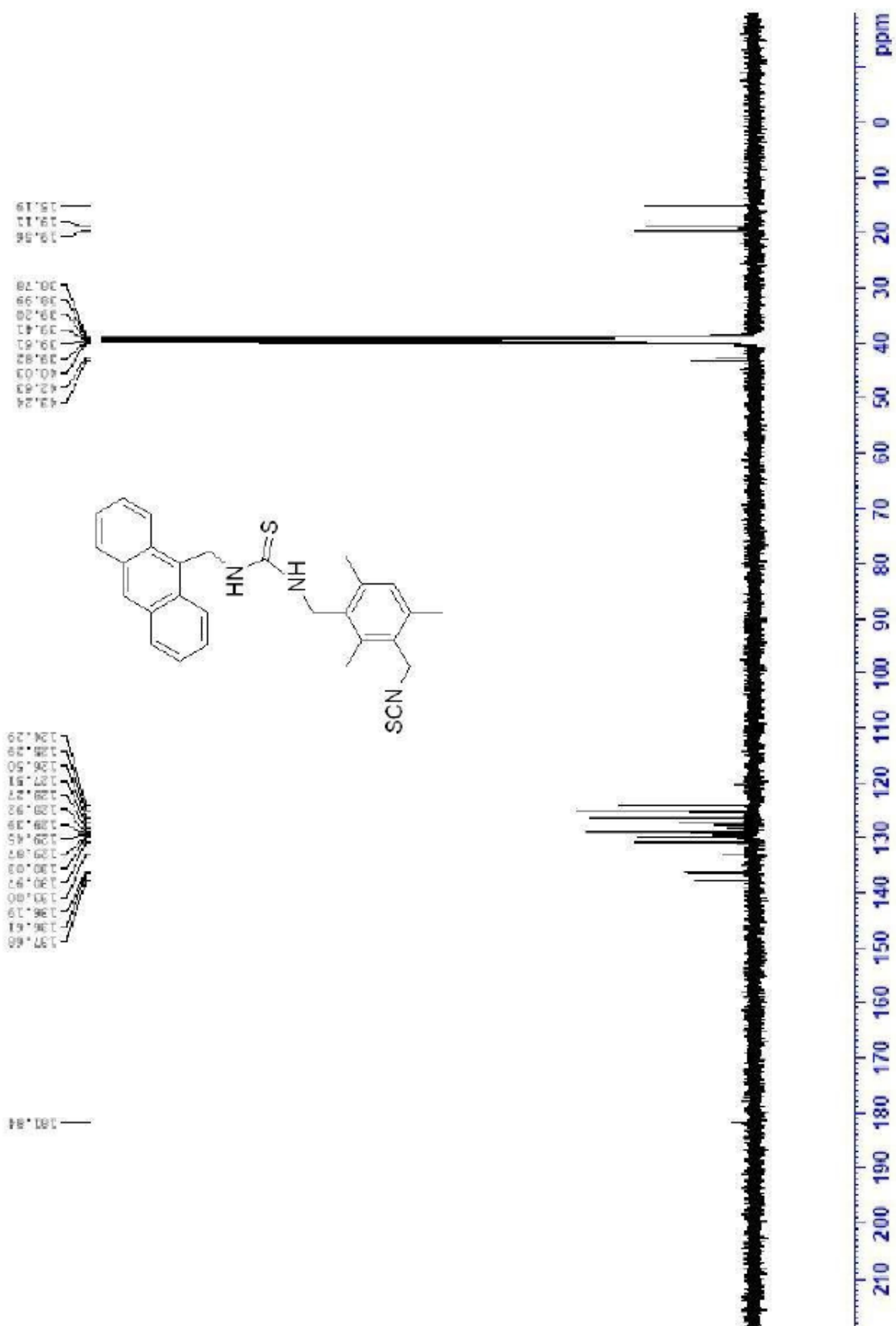
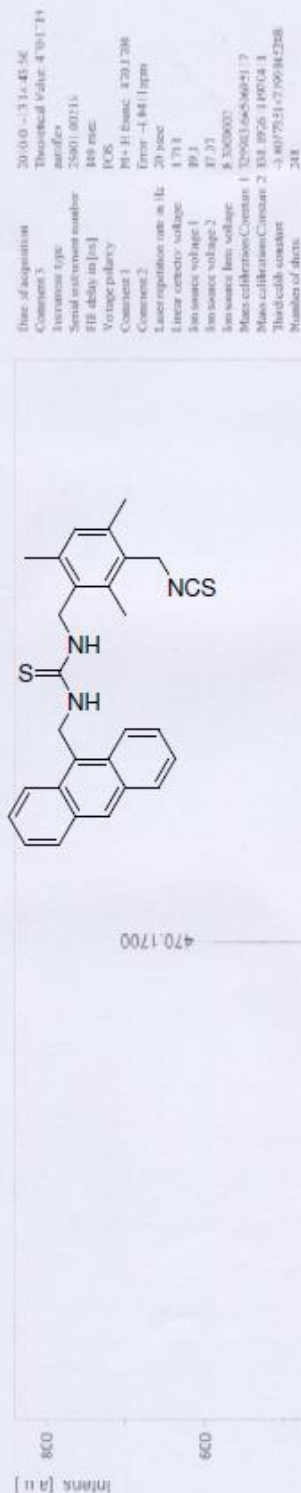


Figure S4: Fluorescence of sensor **AN1** (5×10^{-6}) and **1**–metal mixture (20 equiv of metal ion) in acetonitrile





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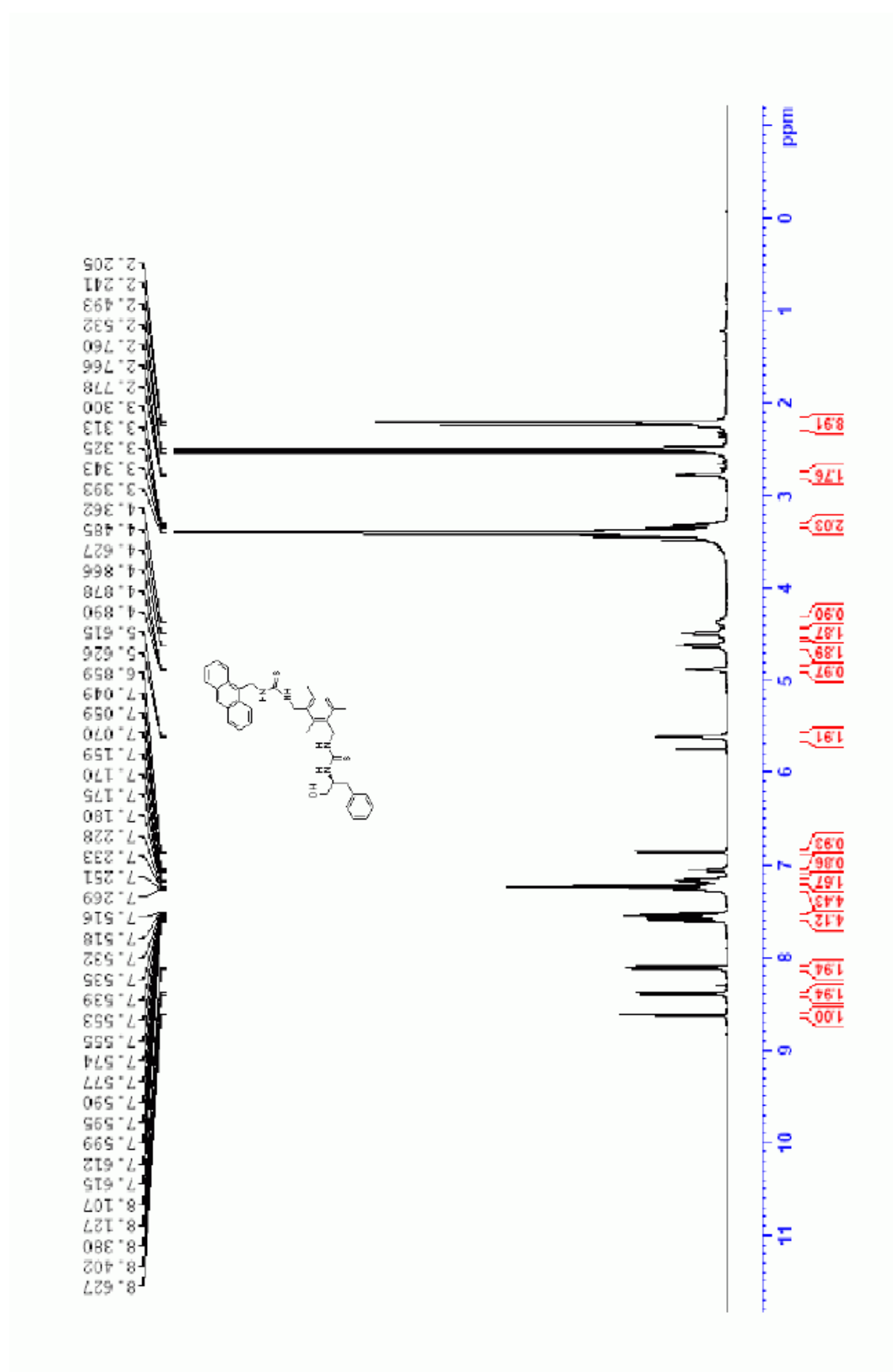


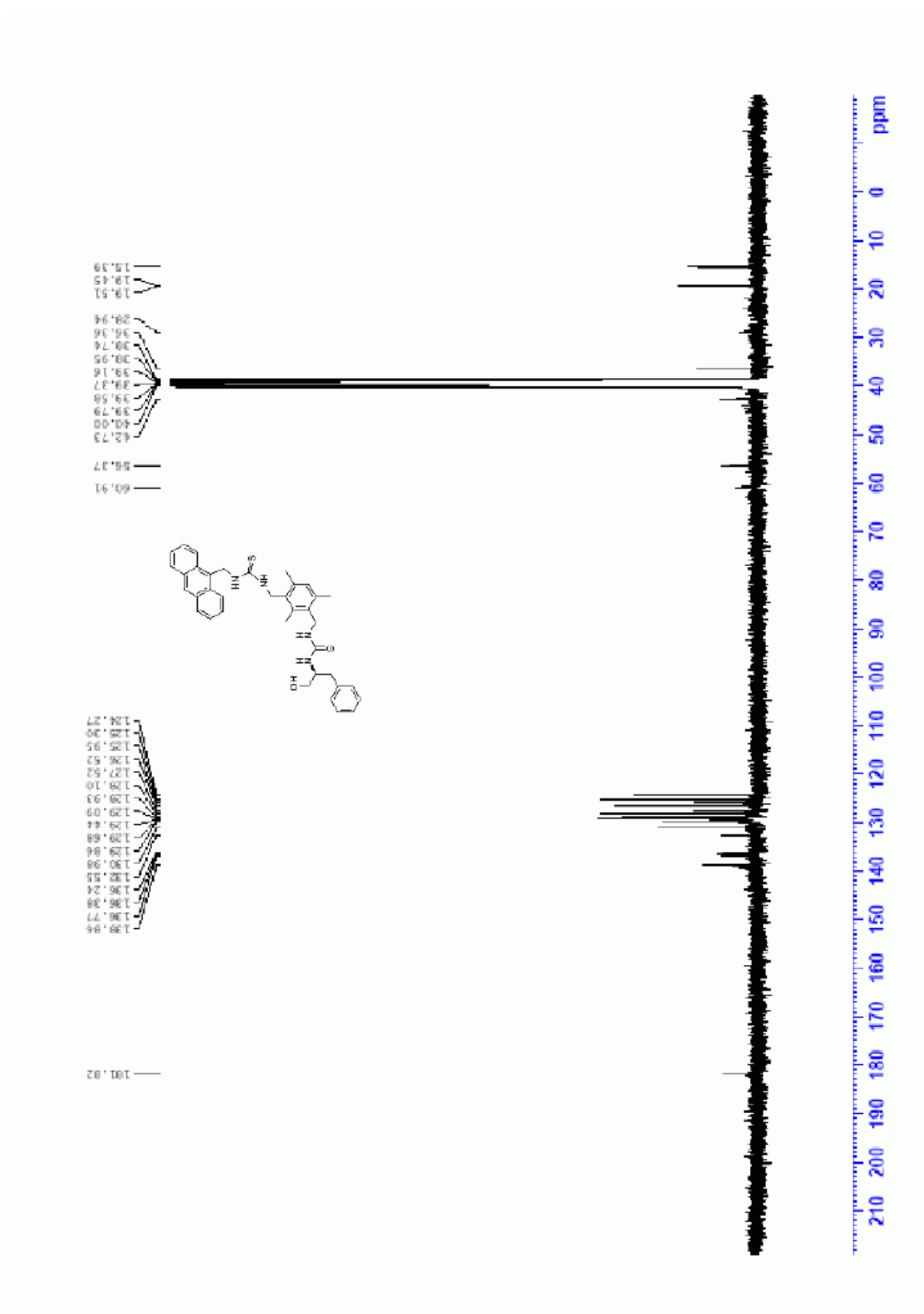
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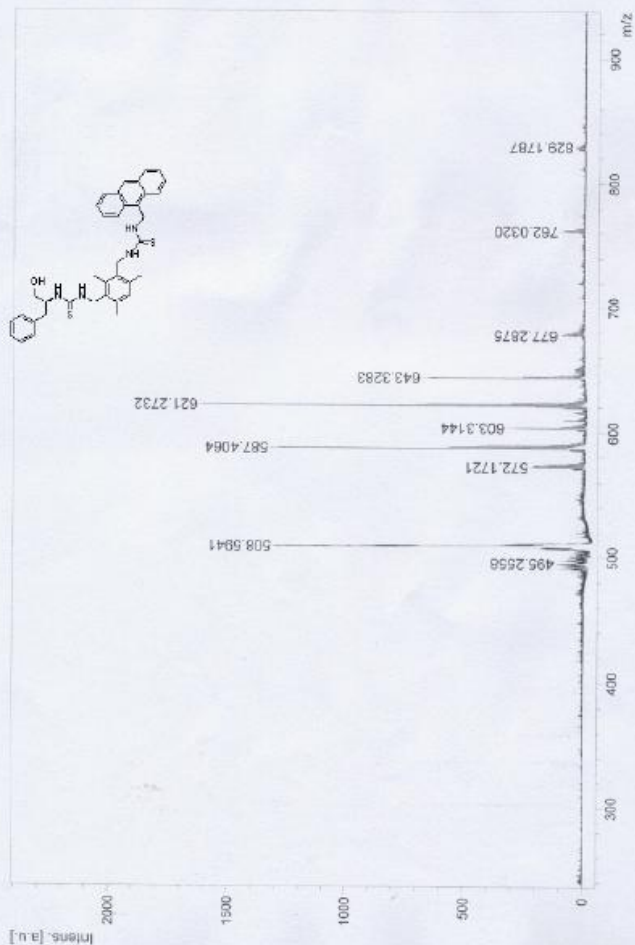


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Serial instrument number	Serial instrument number
150 nsc	150 nsc
PCIS	PCIS
M+1 found: 621.2732	M+1 found: 621.2732
Error: 0.0018ppm	Error: 0.0018ppm
20 g/sec	20 g/sec
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10.1	10.1
17.219999	17.219999
8.1000002	8.1000002
Ion source 1 voltage	Ion source 1 voltage
Ion source 2 voltage	Ion source 2 voltage
Ion source 3 voltage	Ion source 3 voltage
Mass calibration Constant 1	Mass calibration Constant 1
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Mass calibration Constant 2	Mass calibration Constant 2
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Third calib constant	Third calib constant
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25	Number of scans



Acquisition method name: D:\Methods\flexCores\Method\silver20_Fingerprint_2 (2-02-2009).ger
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