

Catalyzed reaction of enamionitrile with primary amines by SbF_3 : synthesis of new 2-aminosubstituted-pyridine-fused δ -lactones

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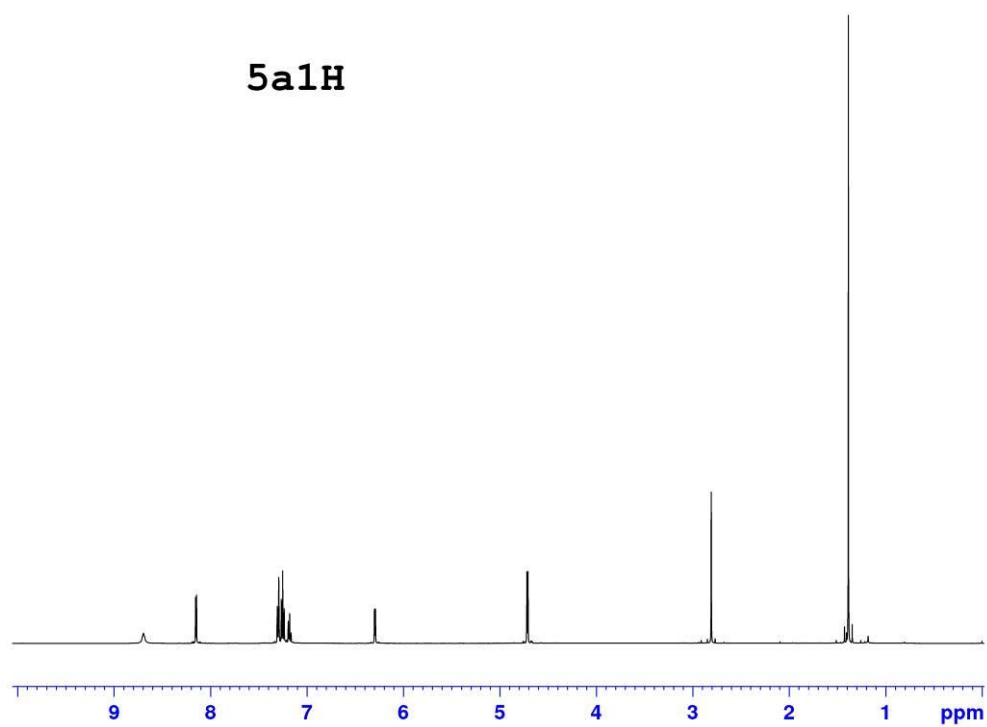
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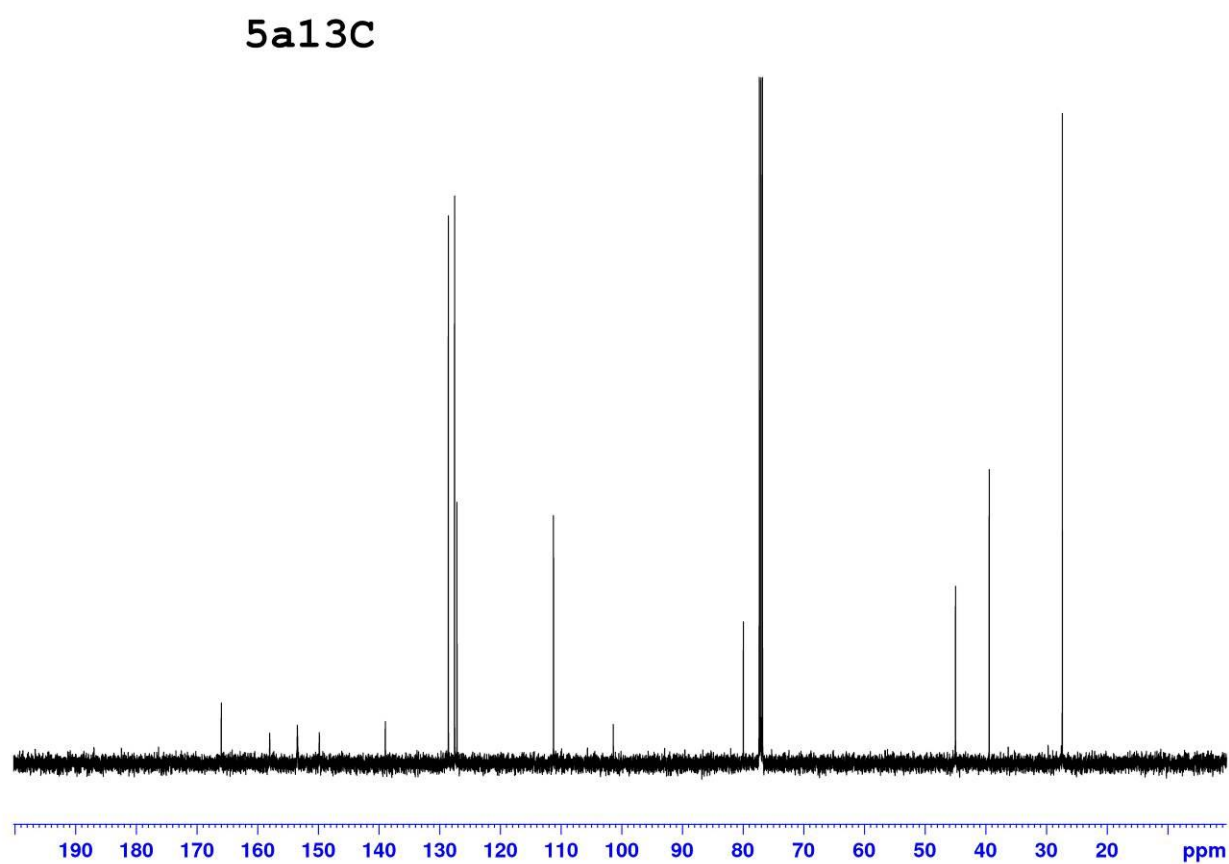
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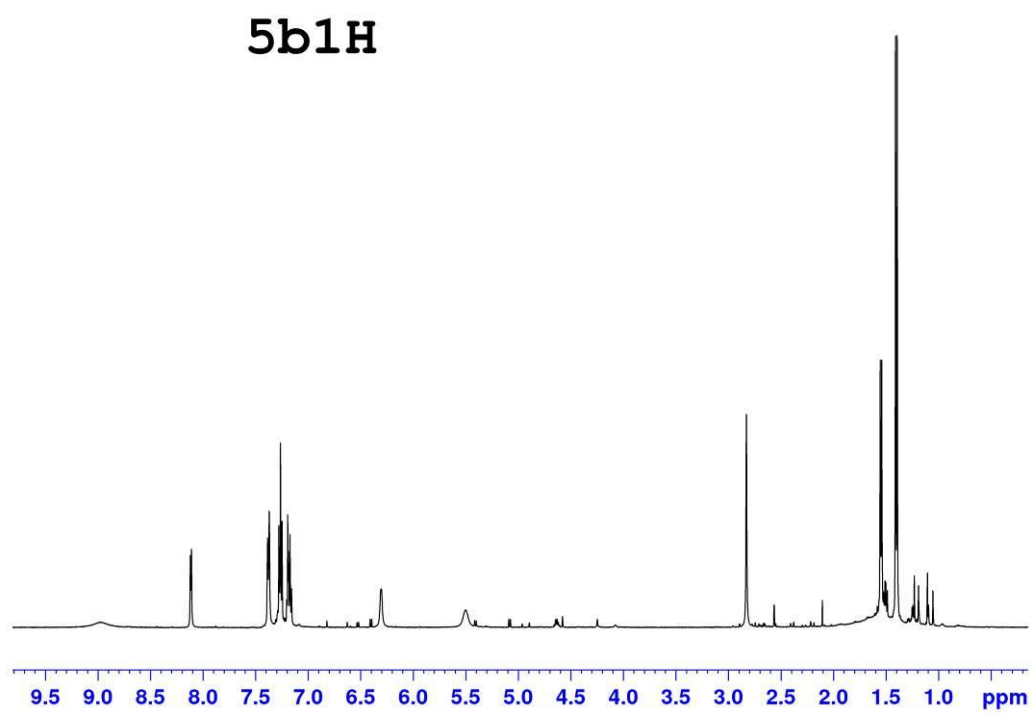
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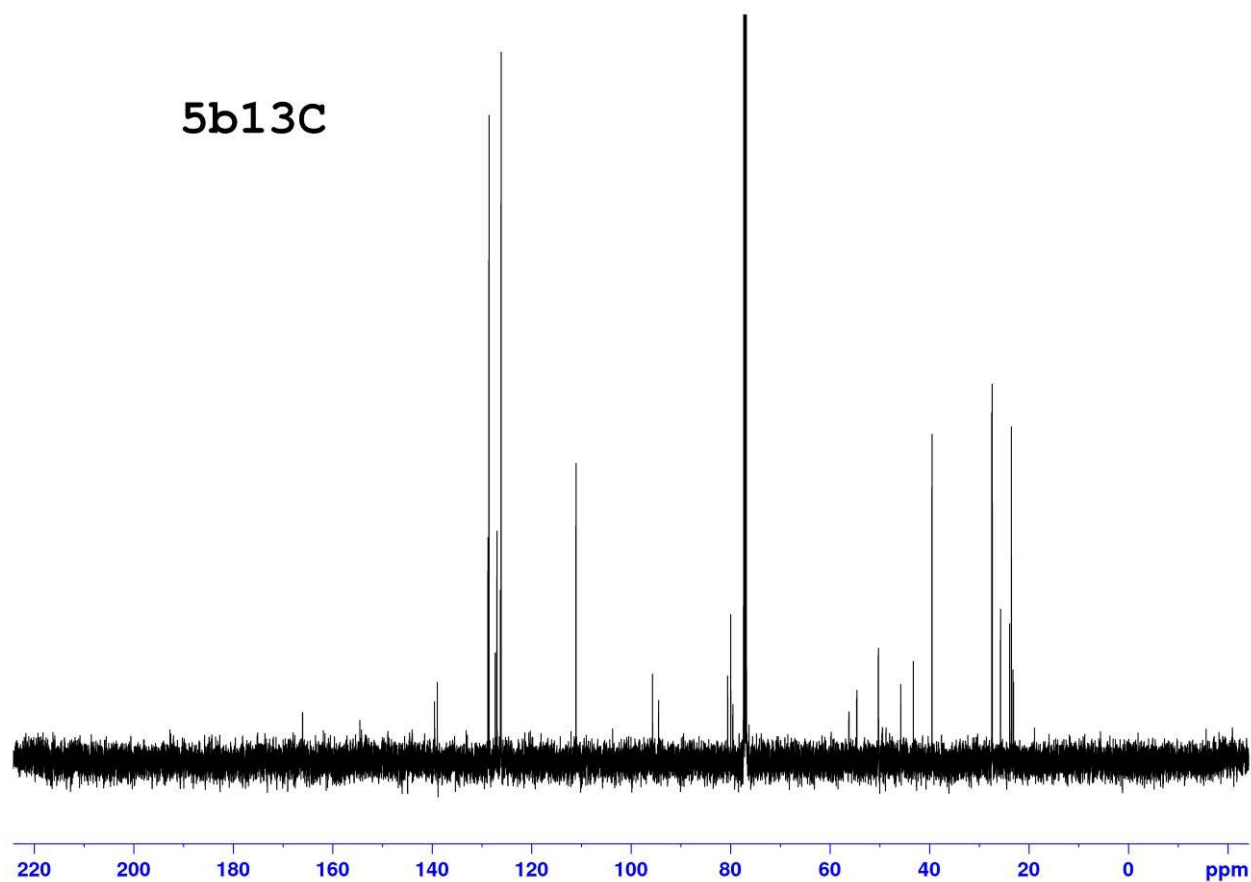
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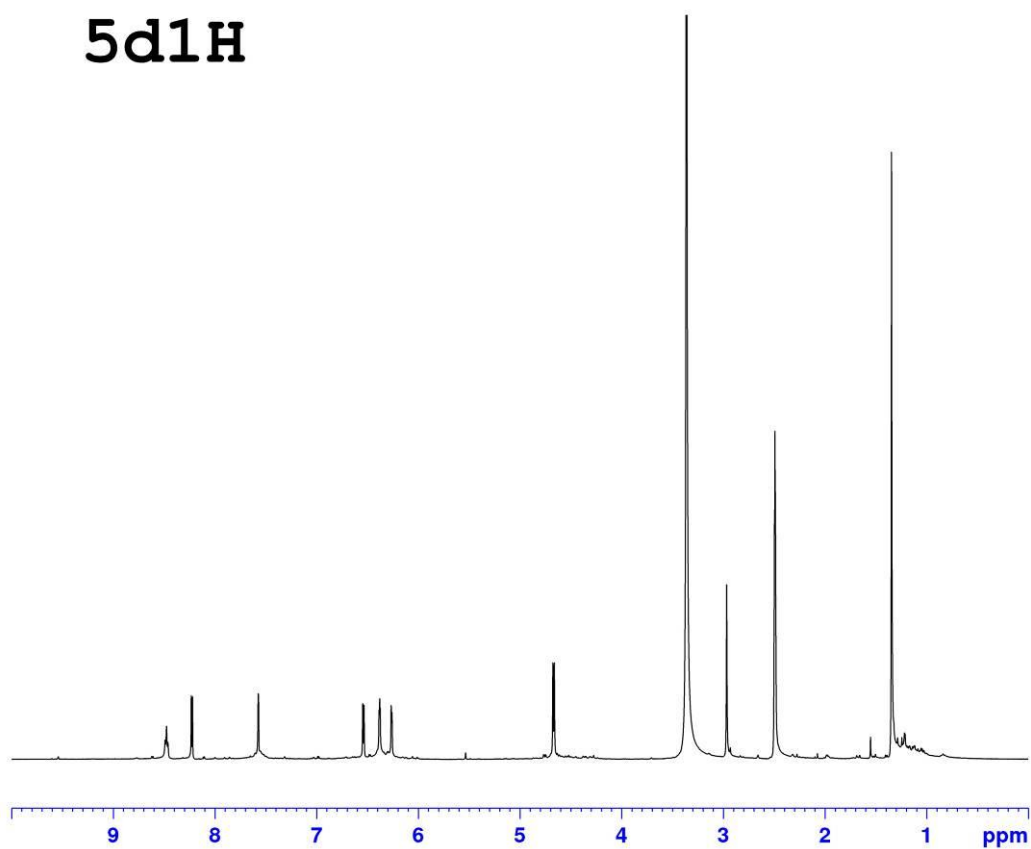
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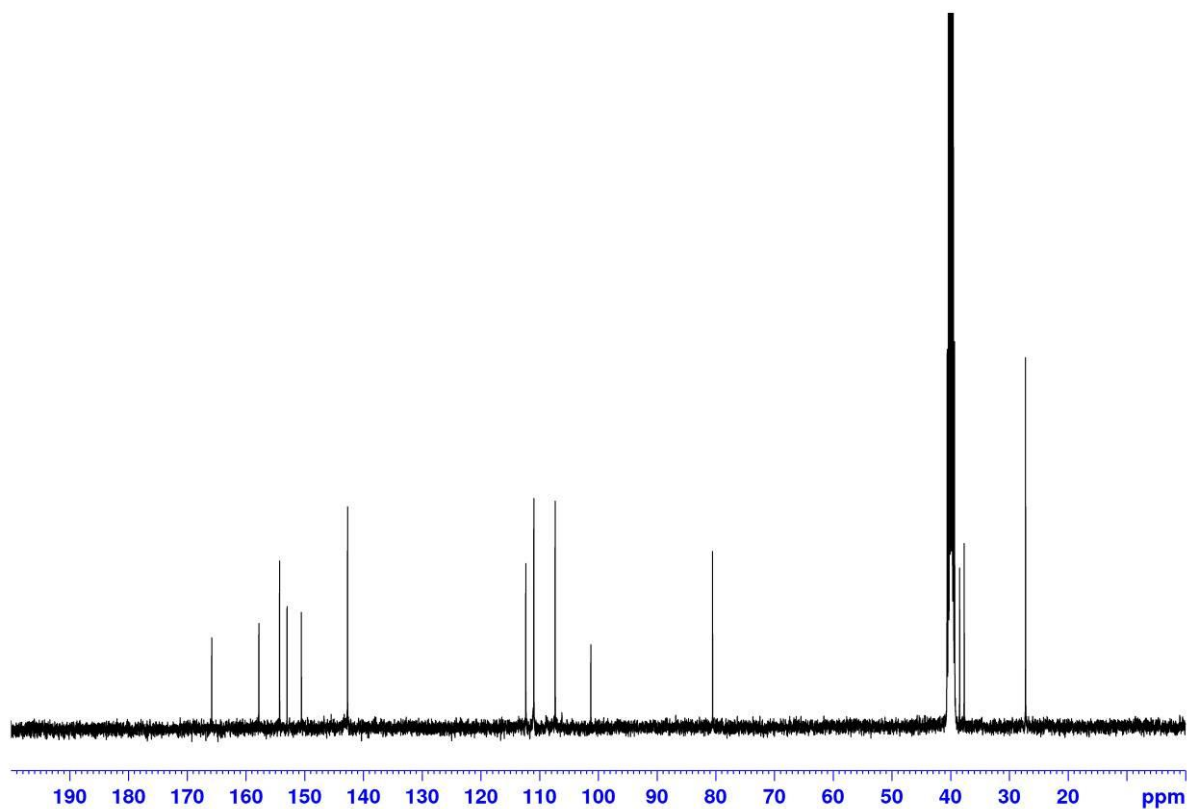


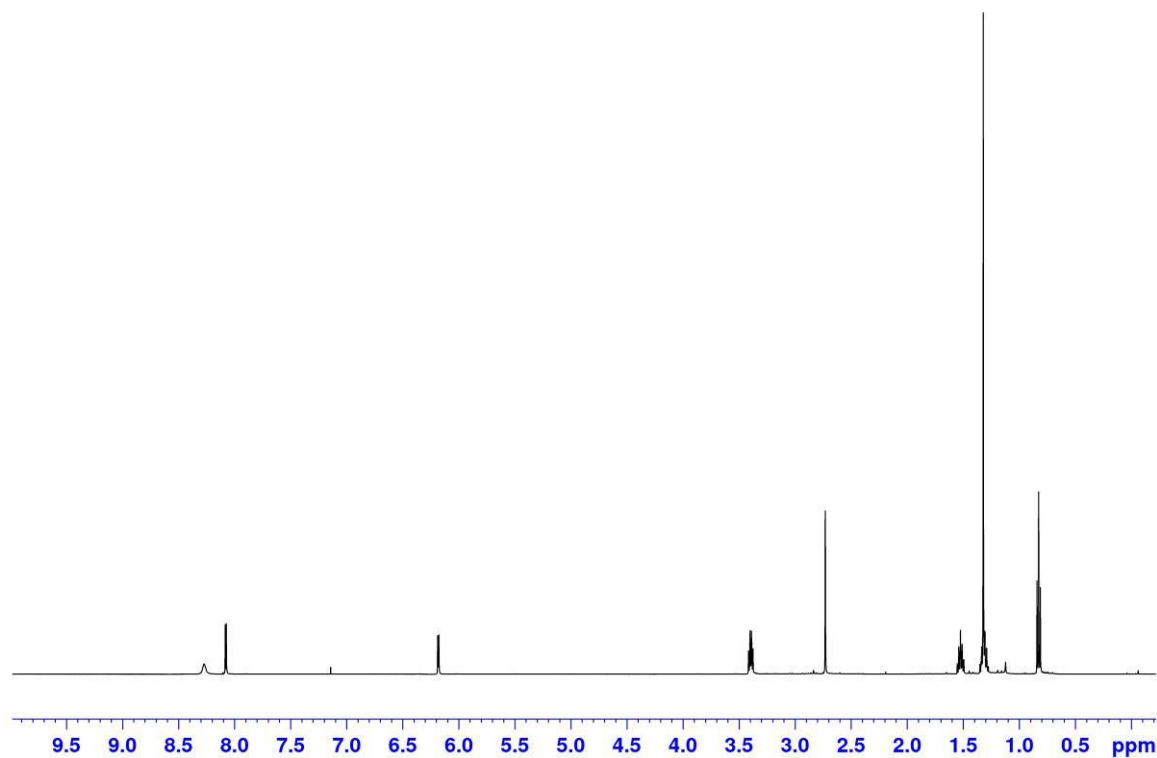


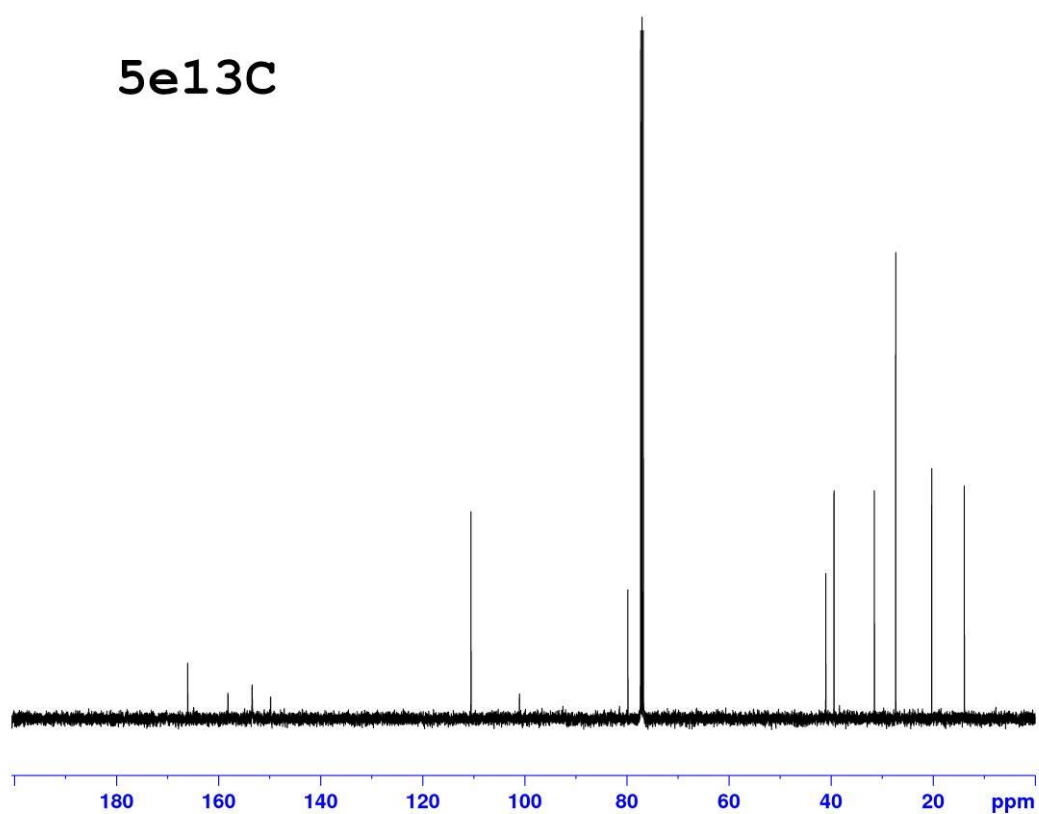


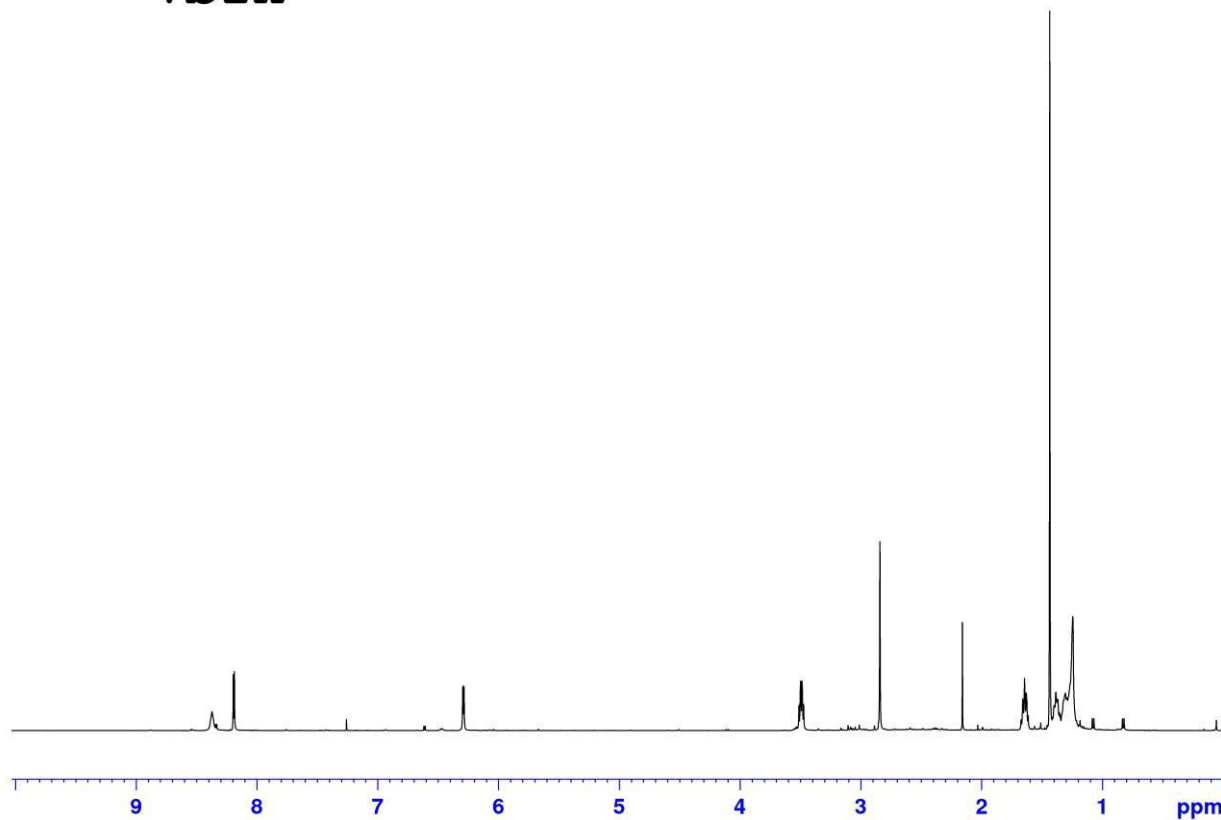


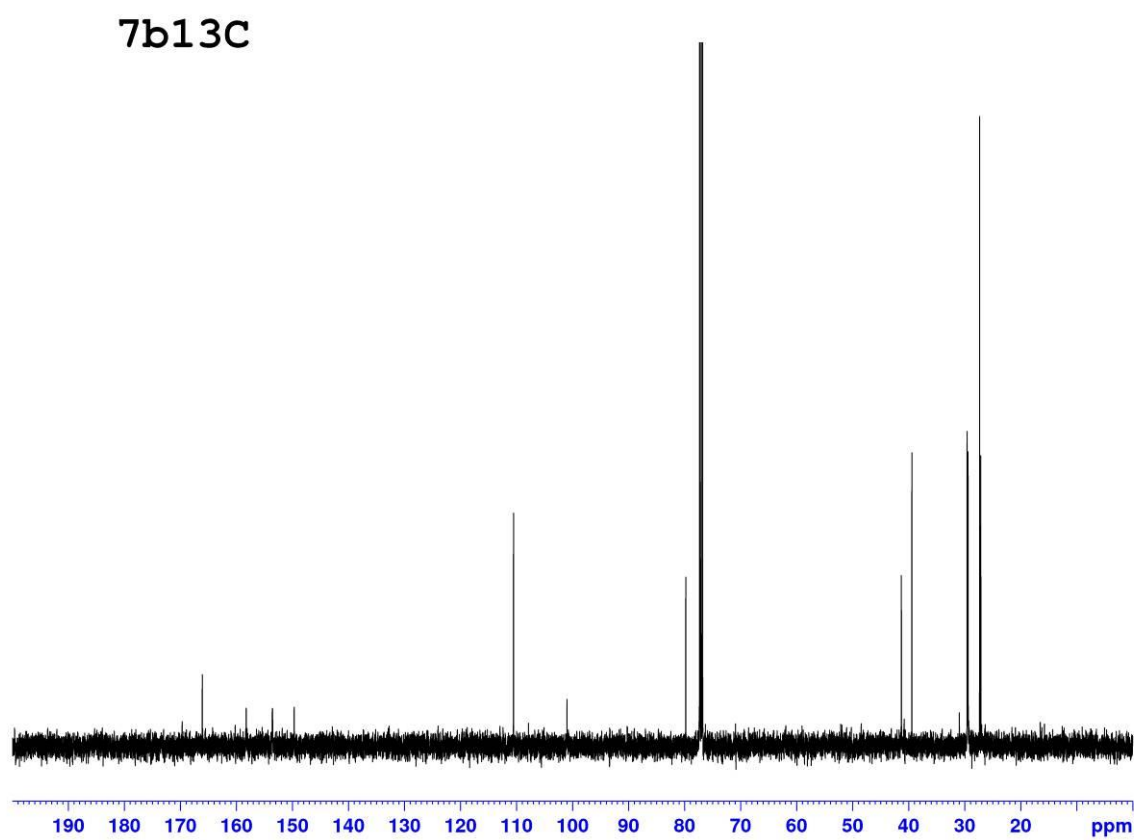
5d1H

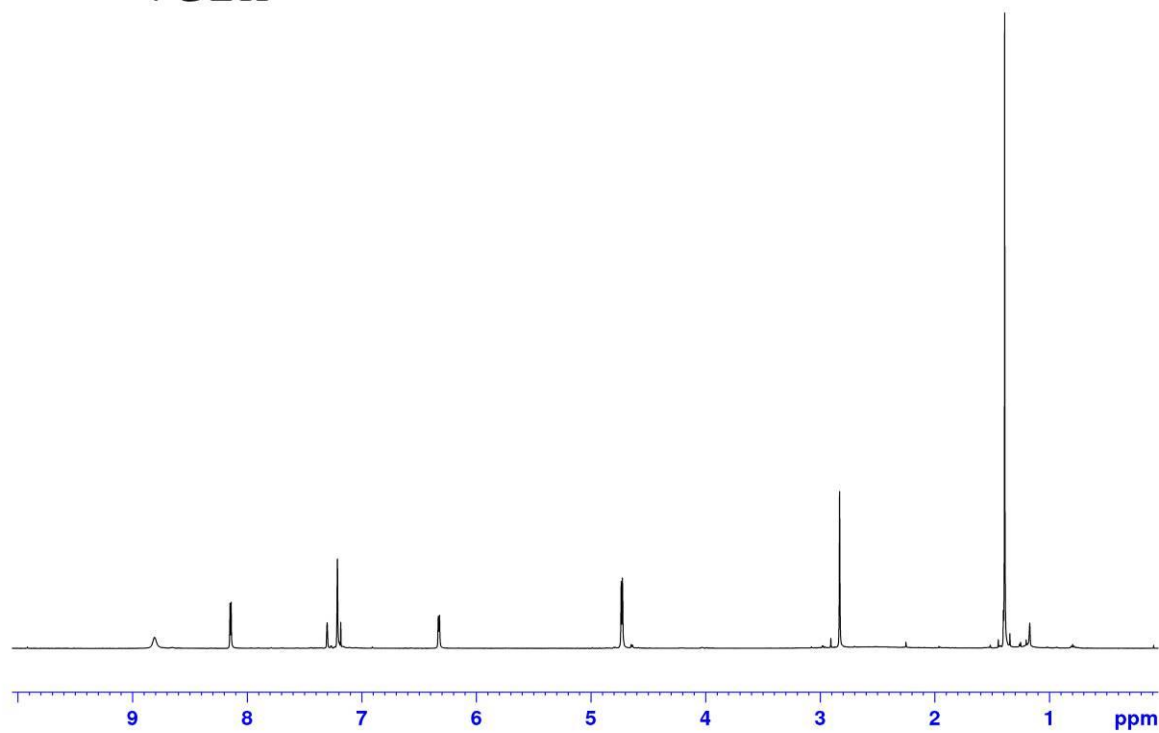
5d13C

5e1H



7b1H



7c1H

Examples of mass spectra and HPLC analysis for 5b and 7b

Elemental Composition Report

Page 1

Single Mass Analysis

Tolerance = 4.0 PPM / DBE: min = -1.5, max = 50.0
Element prediction: Off
Number of isotope peaks used for i-FIT = 5

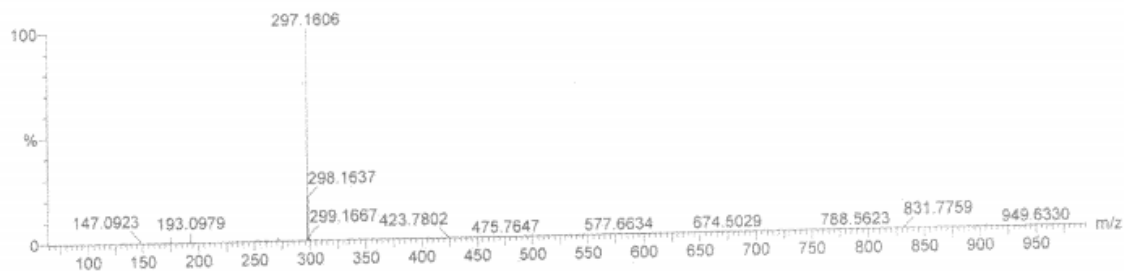
Monoisotopic Mass, Even Electron Ions

114 formula(e) evaluated with 1 results within limits (up to 50 closest results for each mass)

Elements Used:

C: 0-20 H: 0-1000 N: 0-2 O: 0-5 Na: 0-1

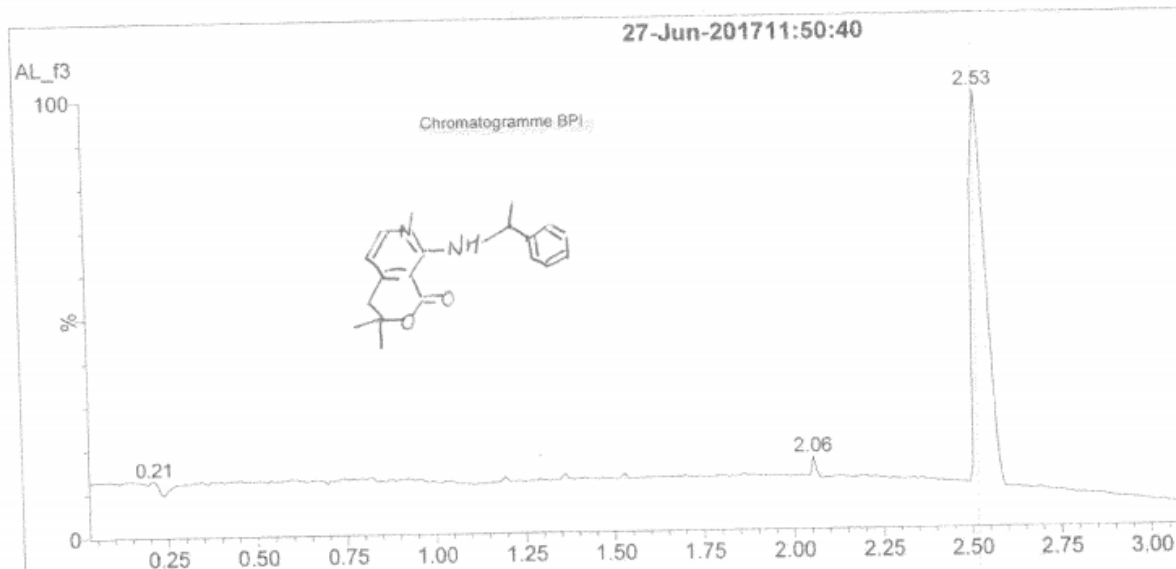
AL_f3 276 (2.574) Cm (276:278-(239:253+362:377))

1: TOF MS ES+
4.28e+006

Minimum: -1.5
Maximum: 2.0 4.0 50.0

Mass	Calc. Mass	mDa	PPM	DBE	i-FIT	Norm	Conf (%)	Formula
297.1606	297.1603	0.3	1.0	9.5	272.1	n/a	n/a	C18 H21 N2 O2

Spectra nsa 2.53 min



Elemental Composition Report

Page 1

Single Mass Analysis

Tolerance = 4.0 PPM / DBE: min = -1.5, max = 50.0

Element prediction: Off

Number of isotope peaks used for i-FIT = 5

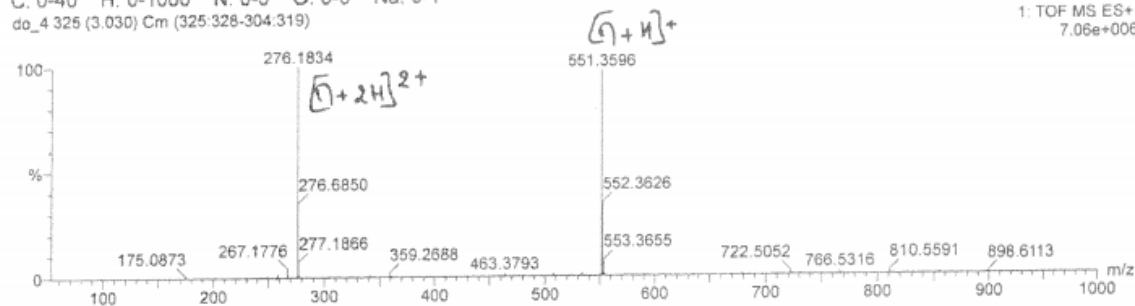
Monoisotopic Mass, Even Electron Ions

436 formula(e) evaluated with 2 results within limits (up to 50 closest results for each mass)

Elements Used:

C: 0-40 H: 0-1000 N: 0-5 O: 0-5 Na: 0-1

do_4 325 (3.030) Cm (325:326-304:319)

1: TOF MS ES+
7.06e+006Minimum: -1.5
Maximum: 2.0 4.0 50.0

Mass	Calc. Mass	mDa	PPM	DBE	i-FIT	Norm	Conf(%)	Formula
551.3596	551.3597	-0.1	-0.2	11.5	851.2	0.000	100.00	C32 H47 N4 O4
	551.3613	-1.7	-3.1	12.5	861.8	10.610	0.00	C35 H48 N2 O2 Na

Spectre NS à 3,03 min

