Supporting Information

Preparation of Ethynylbenzene Derivatives from Substituted Benzaldehydes

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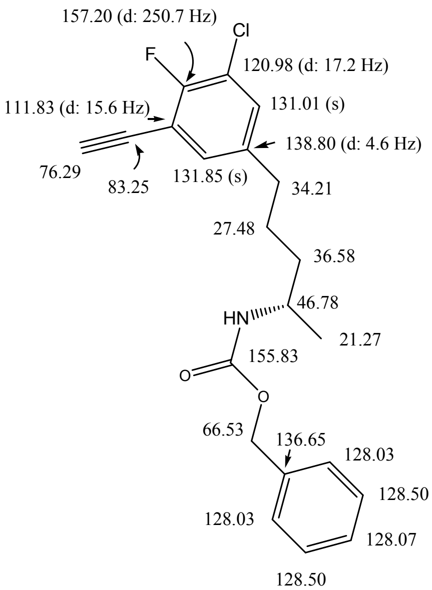
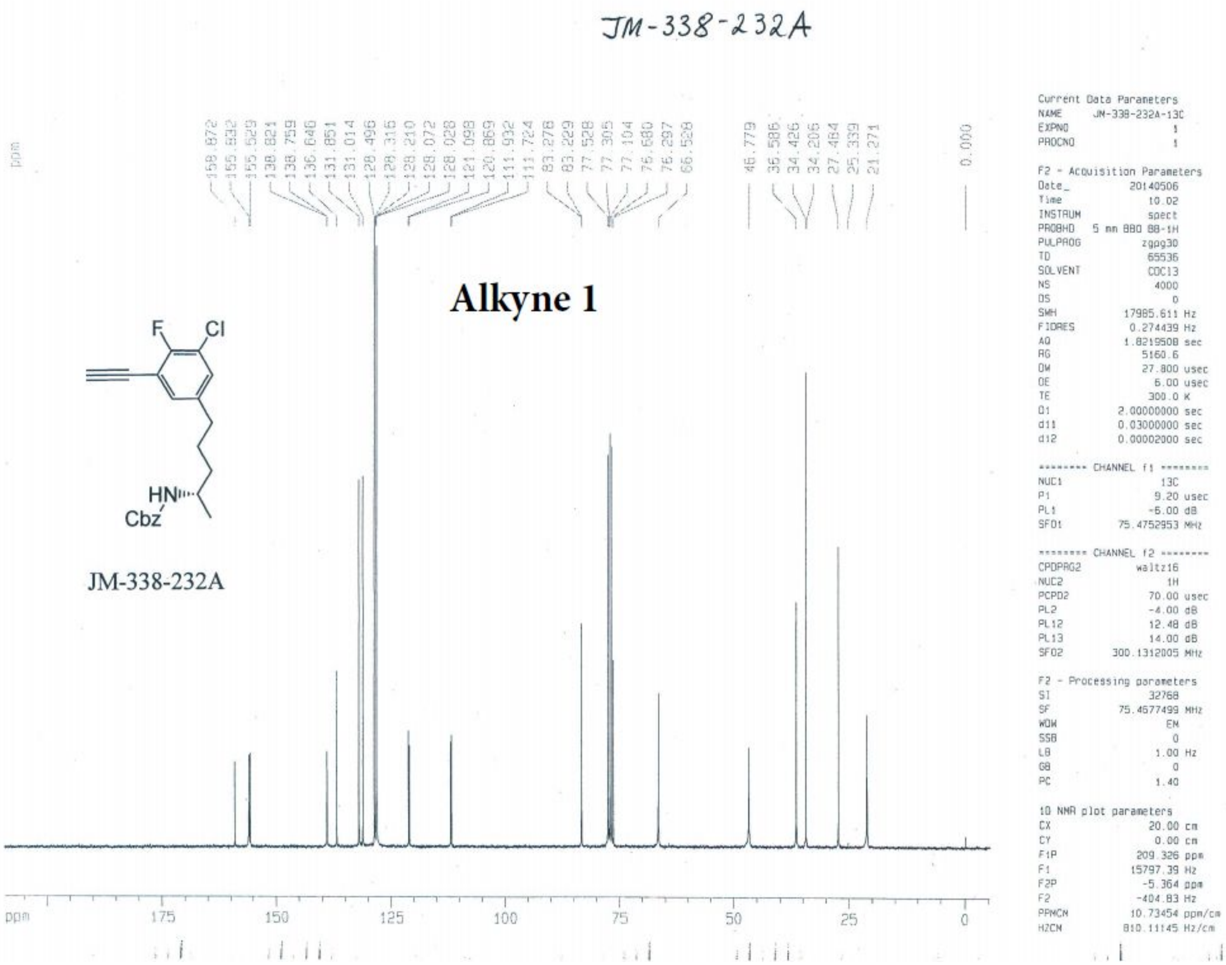
^{13}C-NMR assignments for alkyne 1.




JM-338-232A
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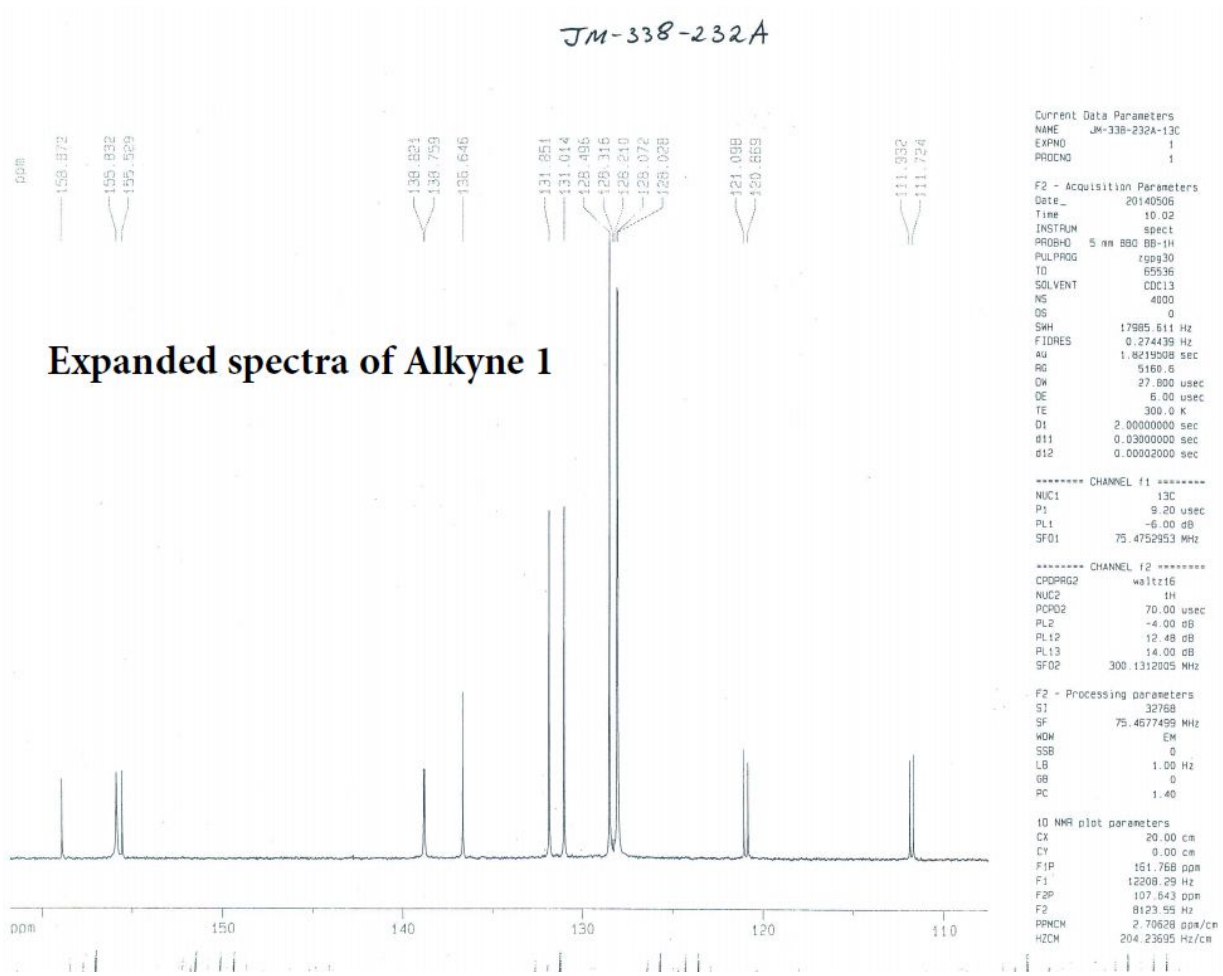
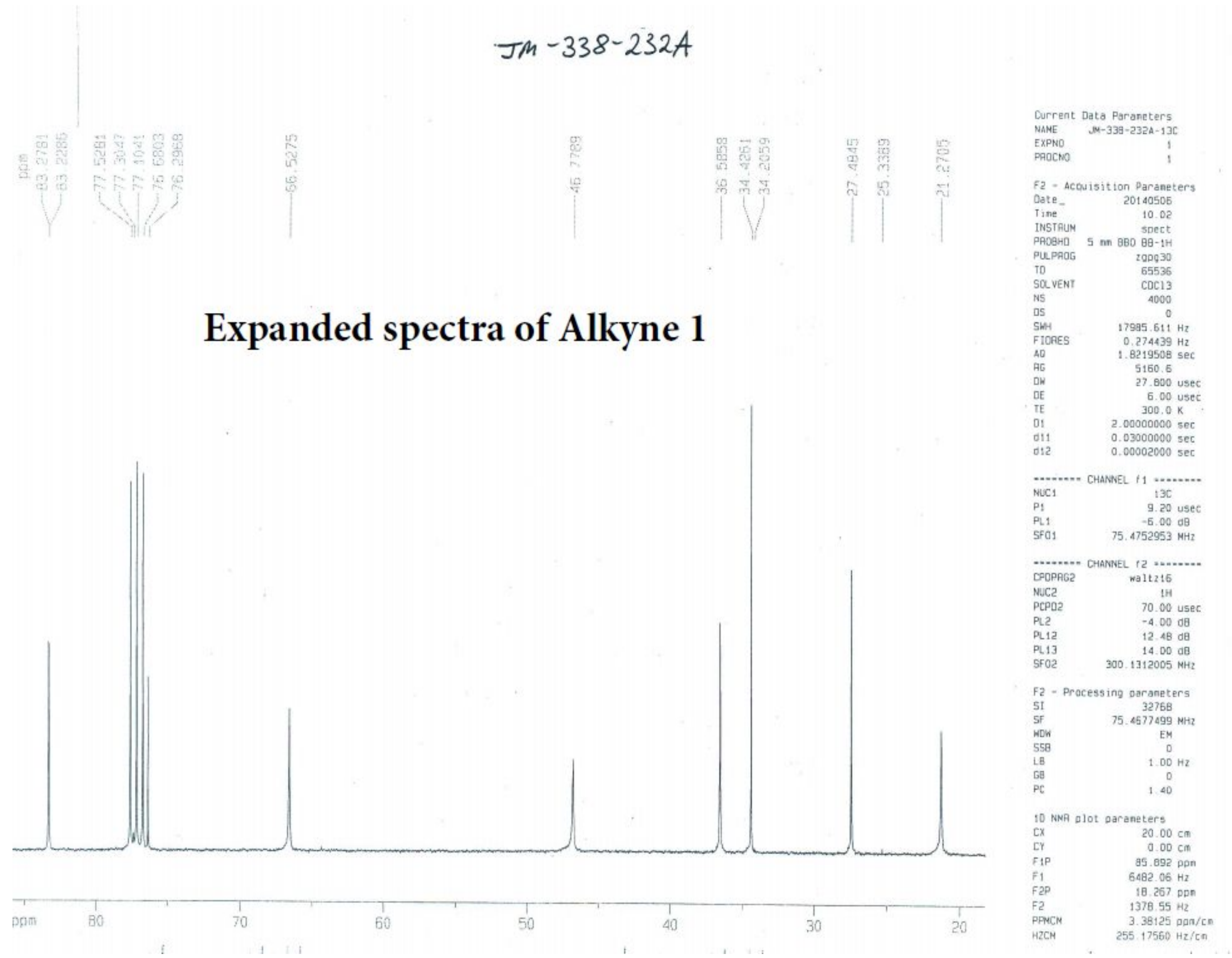
155.532
155.529
138.821
138.759
136.646
131.851
131.014
128.496
128.316
128.210
128.072
128.028
121.098
120.869
111.932
111.724
83.276
83.229
77.528
77.305
77.104
76.680
76.297
66.528
46.779
35.586
34.426
34.206
27.464
25.339
21.271
0.000
Alkyne 1
F
Cl
HN
Cbz
JM-338-232A
Current Data Parameters
NAME JM-338-232A-13C
EXPNO 1
PROCNO 1
F2 - Acquisition Parameters
Date_ 20140506
Time 10.02
INSTRUM spect
PROBHD 5 mm BBO BB-1H
PULPROG zgpg30
TD 65536
SOLVENT CDCl3
NS 4000
DS 0
SWH 17985.611 Hz
FIDRES 0.274439 Hz
AQ 1.8219508 sec
RG 5160.6
DW 27.800 usec
DE 6.00 usec
TE 300.0 K
D1 2.00000000 sec
d11 0.03000000 sec
d12 0.00002000 sec
======== CHANNEL f1 ========
NUC1 13C
P1 9.20 usec
PL1 -6.00 dB
SFO1 75.4752953 MHz
======== CHANNEL f2 ========
CPDPRG2 waltz16
NUC2 1H
PCPD2 70.00 usec
PL2 -4.00 dB
PL12 12.48 dB
PL13 14.00 dB
SFO2 300.1312005 MHz
F2 - Processing parameters
SI 32768
SF 75.4577499 MHz
WDW EM
SSB 0
LB 1.00 Hz
GB 0
PC 1.40
1D NMR plot parameters
CX 20.00 cm
CY 0.00 cm
F1P 209.326 ppm
F1 15797.39 Hz
F2P -5.364 ppm
F2 -404.83 Hz
PPMCM 10.73454 ppm/cm
HZCM 810.11145 Hz/cm
ppm
175
150
125
100
75
50
25
0

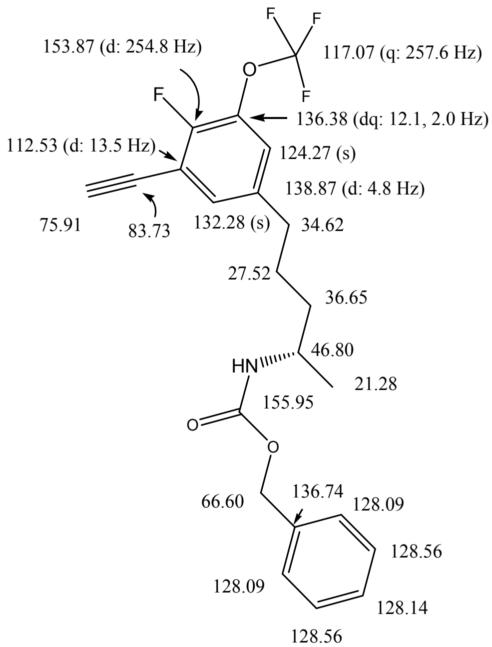
Expanded spectra of Alkyne 1

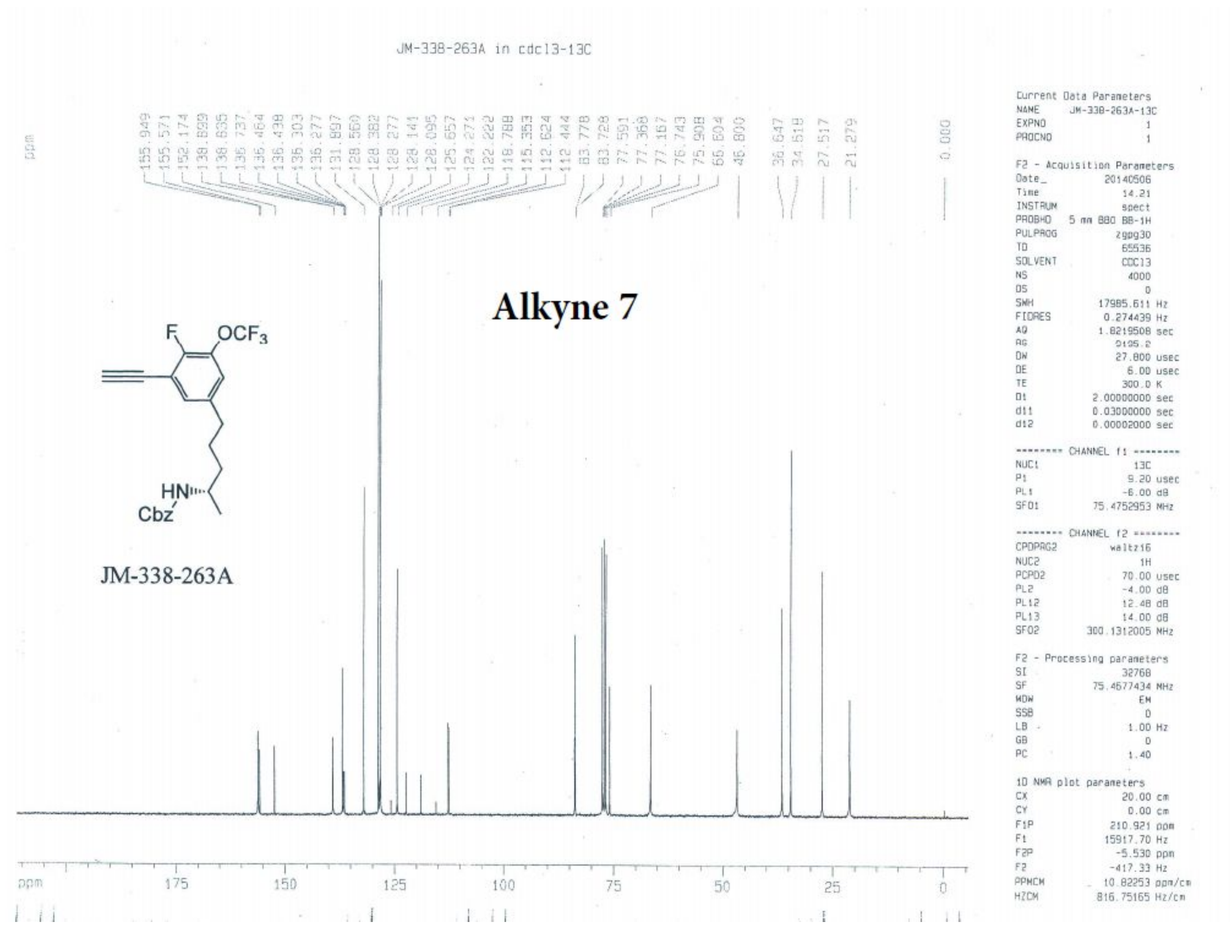




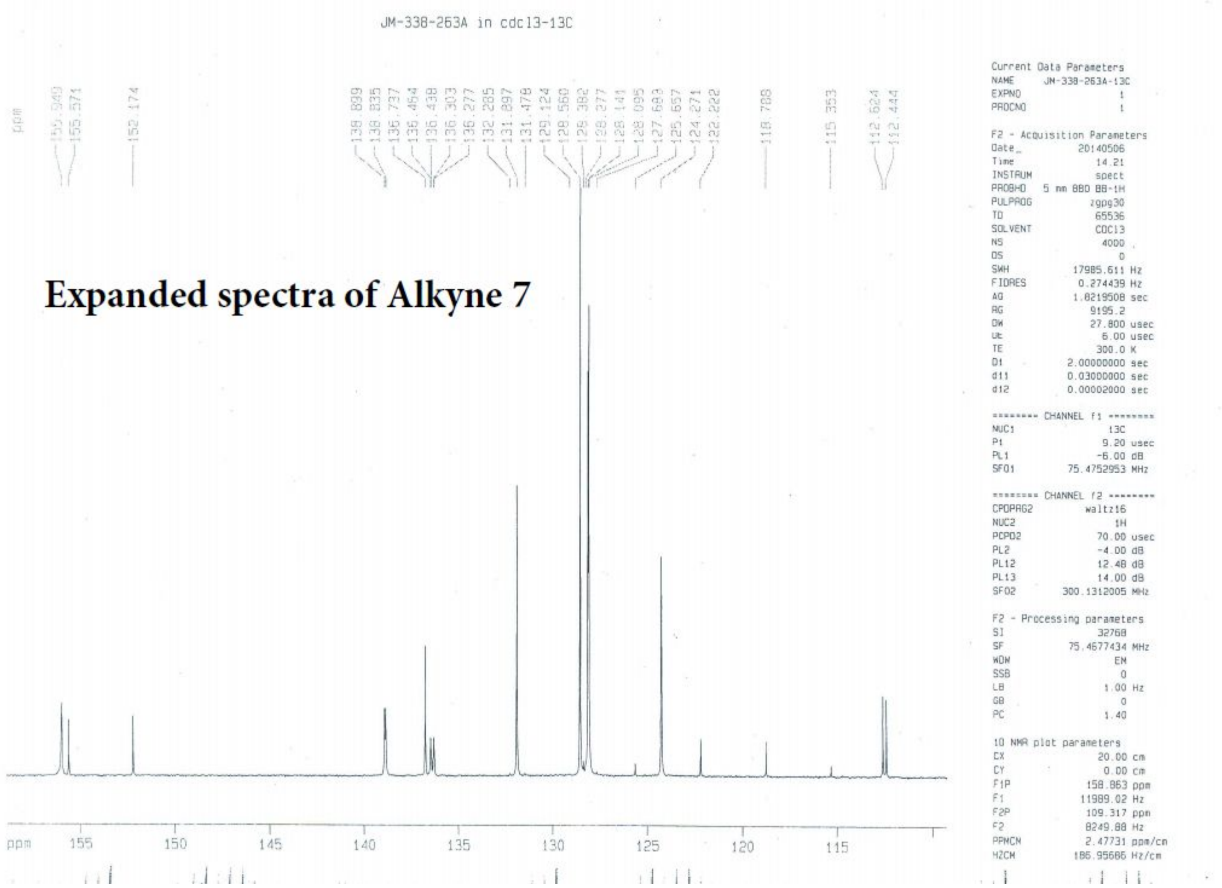
JM-338-232A
Expanded spectra of Alkyne 1
83.2781
83.2286
77.5281
77.3047
77.1041
76.6803
76.2968
66.5275
46.7789
36.5858
34.4261
34.2059
27.4845
25.3389
21.2705
ppm
80
70
60
50
40
30
20
Current Data Parameters
NAME JM-338-232A-13C
EXPNO 1
PROCNO 1
F2 - Acquisition Parameters
Date_ 20140506
Time 10.02
INSTRUM spect
PROBHD 5 mm BBO BB-1H
PULPROG zgpg30
TD 65536
SOLVENT CDCl3
NS 4000
DS 0
SWH 17985.611 Hz
FIDRES 0.274439 Hz
AQ 1.8219508 sec
RG 5160.6
DW 27.800 usec
DE 6.00 usec
TE 300.0 K
D1 2.00000000 sec
d11 0.03000000 sec
d12 0.00002000 sec
======== CHANNEL f1 ========
NUC1 13C
P1 9.20 usec
PL1 -6.00 dB
SFO1 75.4752953 MHz
======== CHANNEL f2 ========
CPDPRG2 waltz16
NUC2 1H
PCPD2 70.00 usec
PL2 -4.00 dB
PL12 12.48 dB
PL13 14.00 dB
SFO2 300.1312005 MHz
F2 - Processing parameters
SI 32768
SF 75.4677499 MHz
WDW EM
SSB 0
LB 1.00 Hz
GB 0
PC 1.40
1D NMR plot parameters
CX 20.00 cm
CY 0.00 cm
F1P 85.892 ppm
F1 6482.06 Hz
F2P 18.267 ppm
F2 1378.55 Hz
PPMCM 3.38125 ppm/cm
HZCM 255.17560 Hz/cm

[13]C-NMR assignments for alkyne 7.

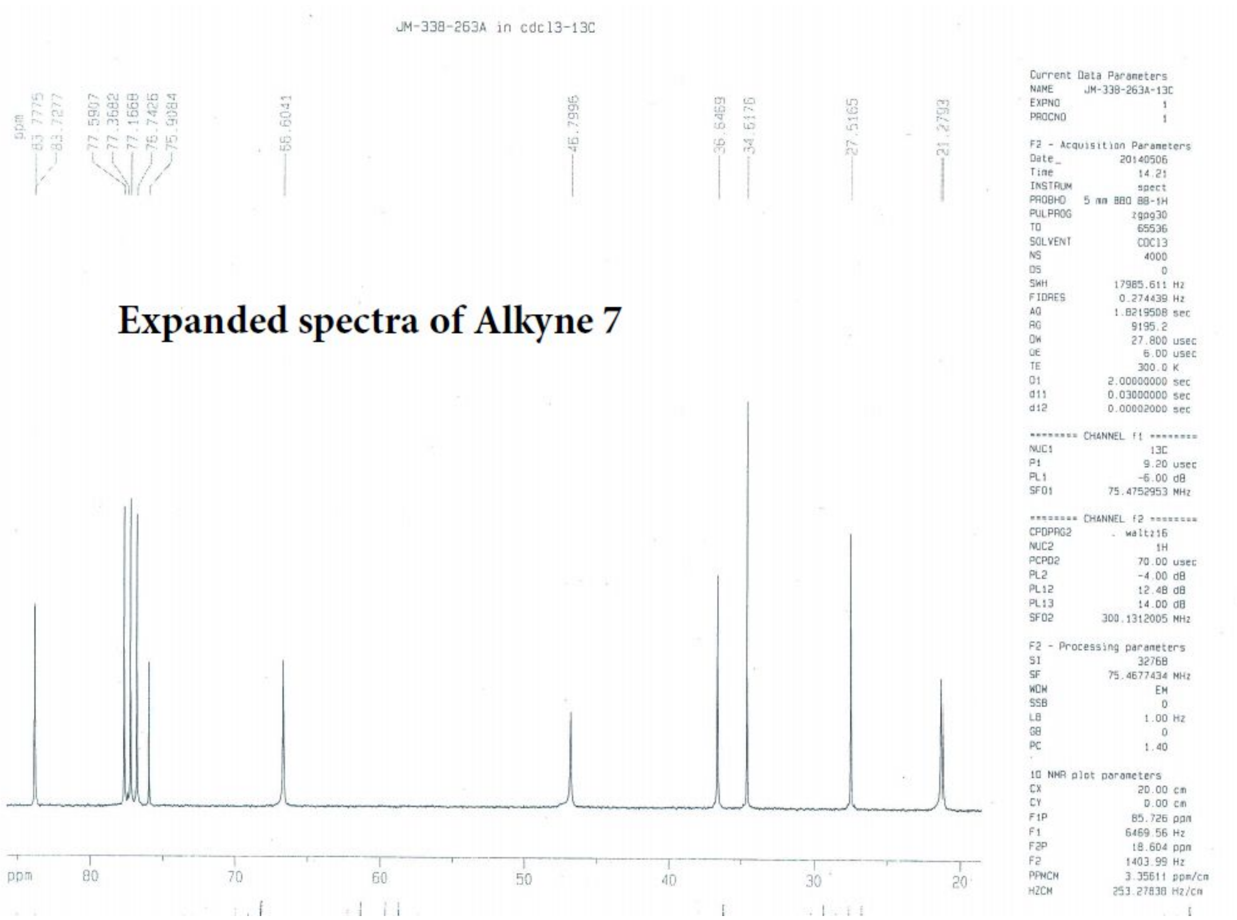




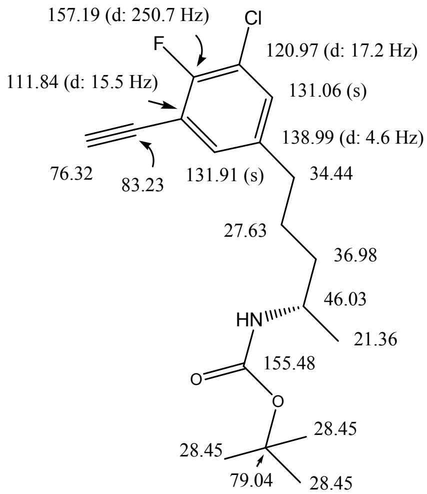
Expanded spectra of Alkyne 7

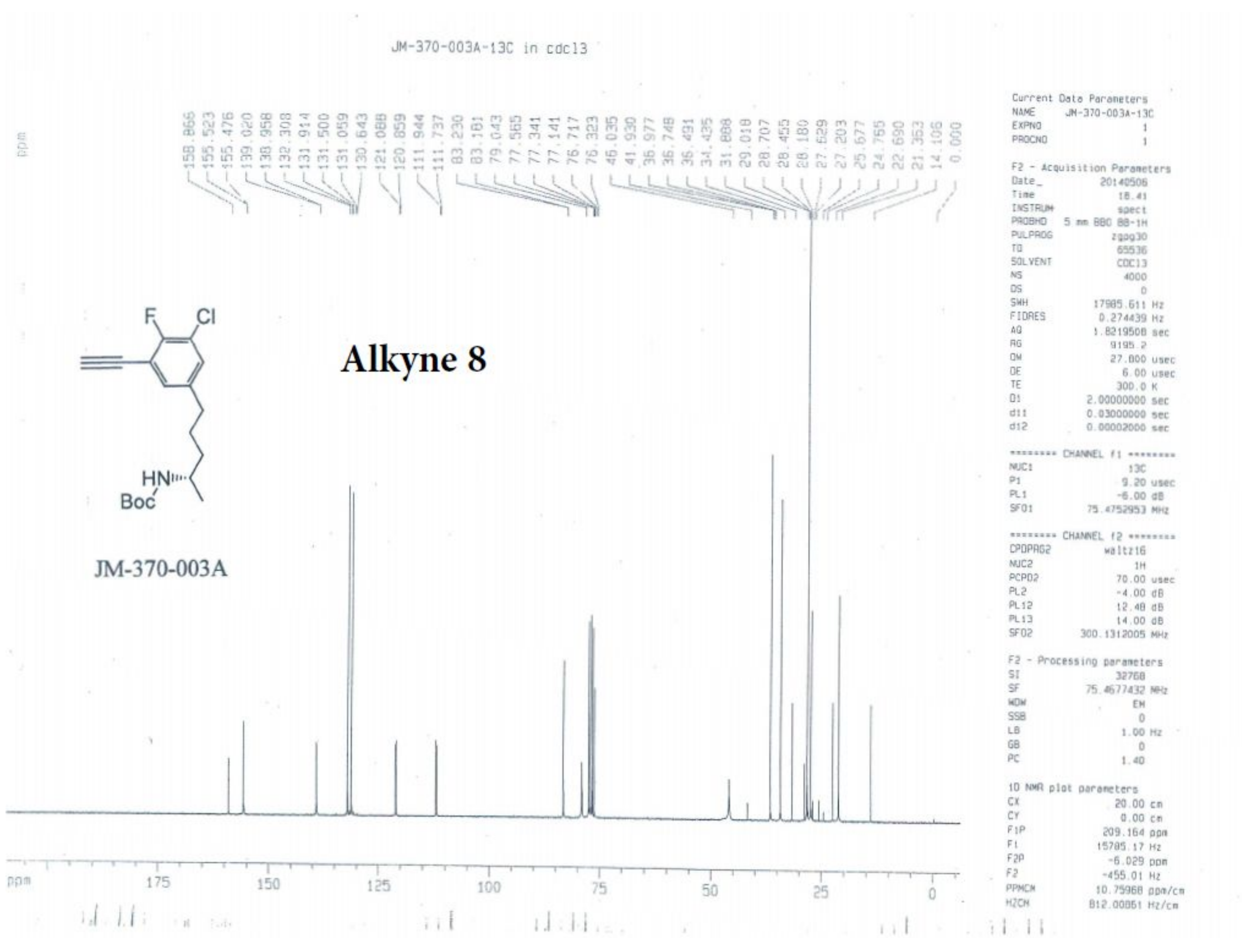


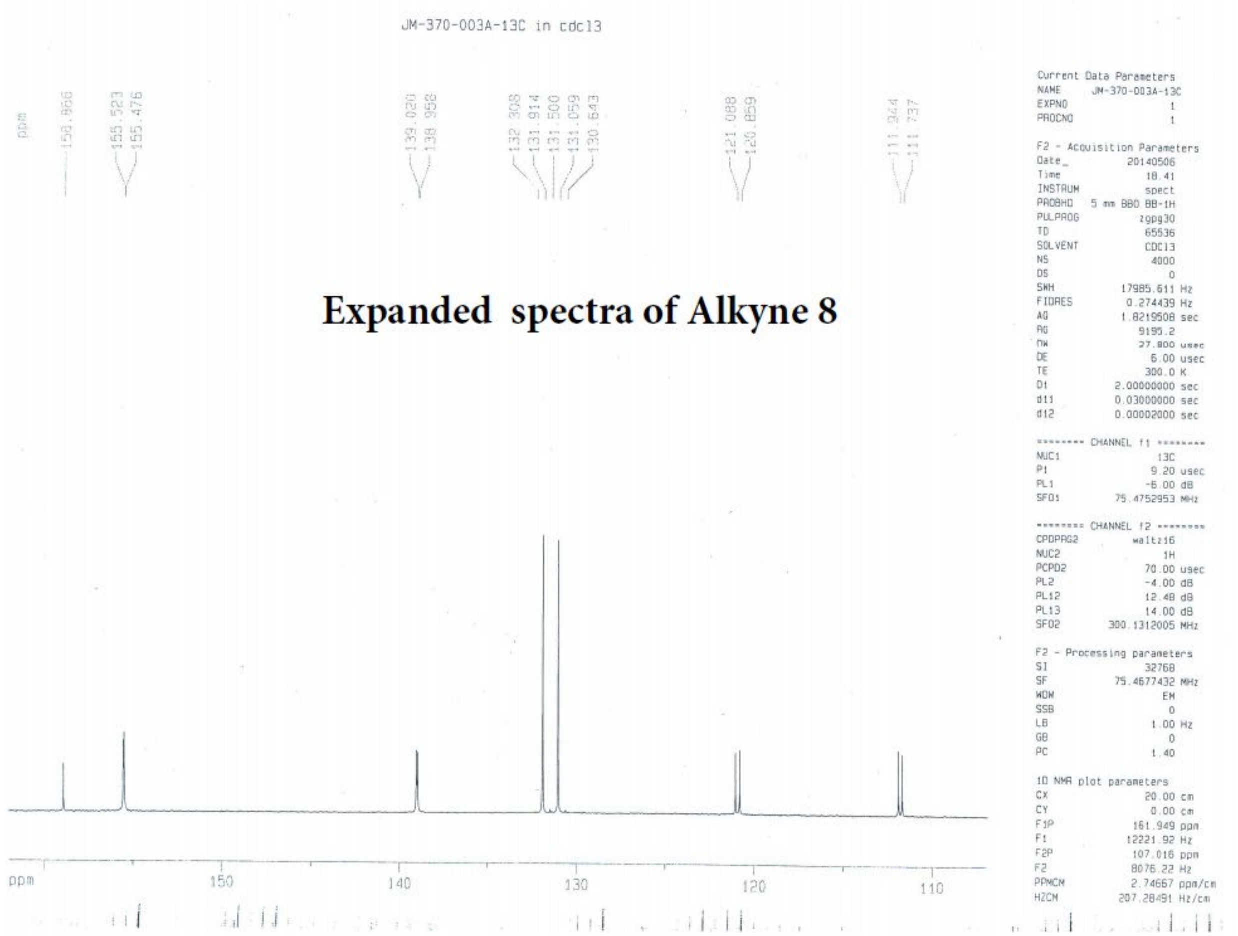
Expanded spectra of Alkyne 7



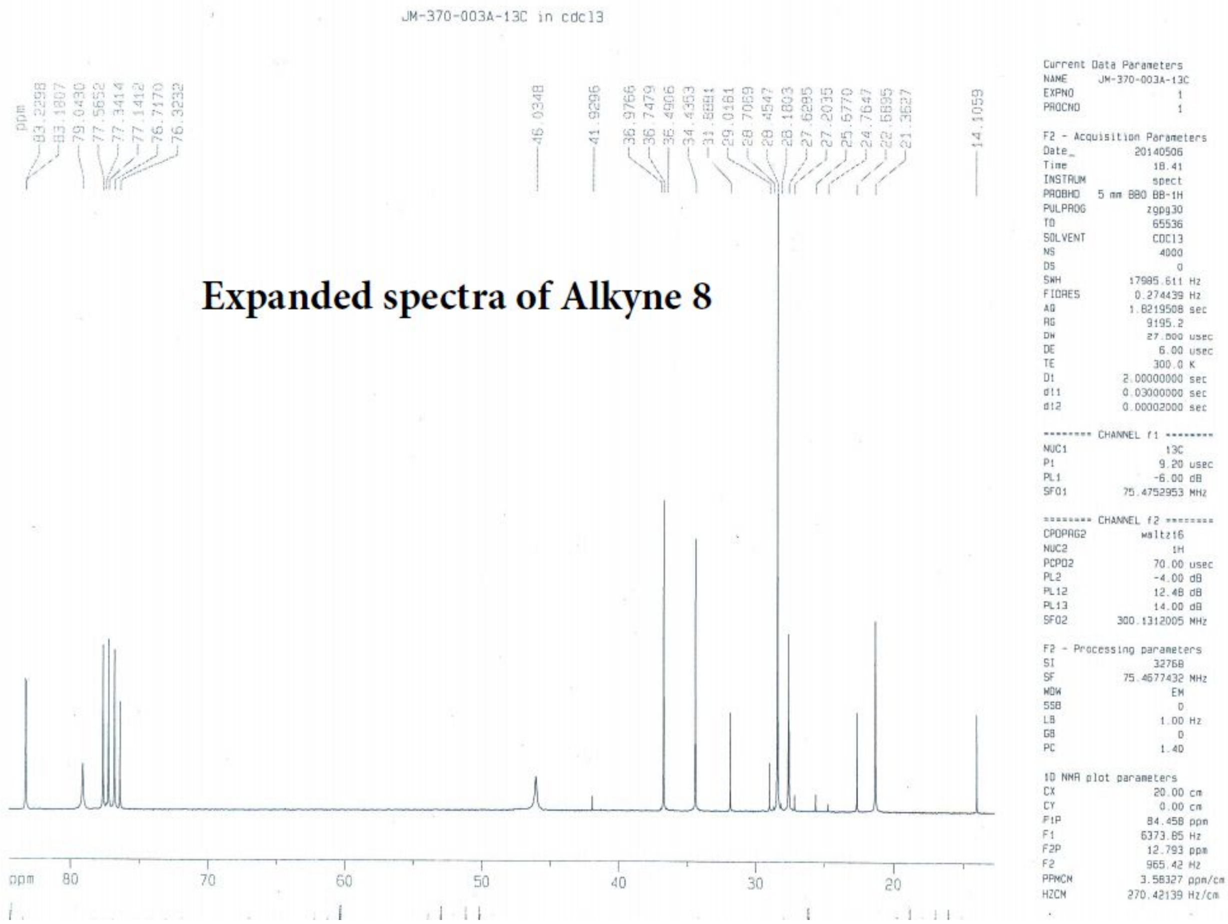
[13]C-NMR assignments for alkyne 8.





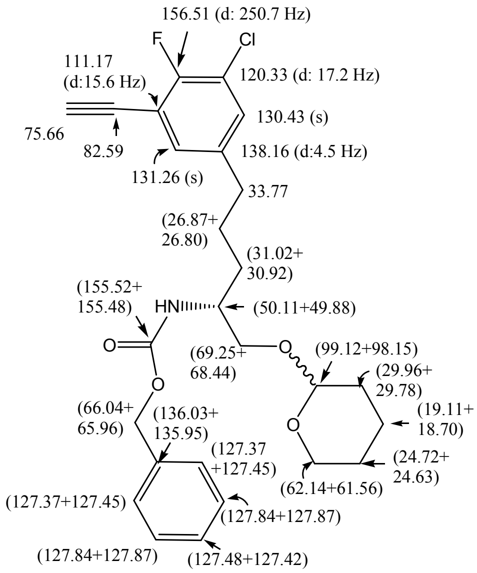


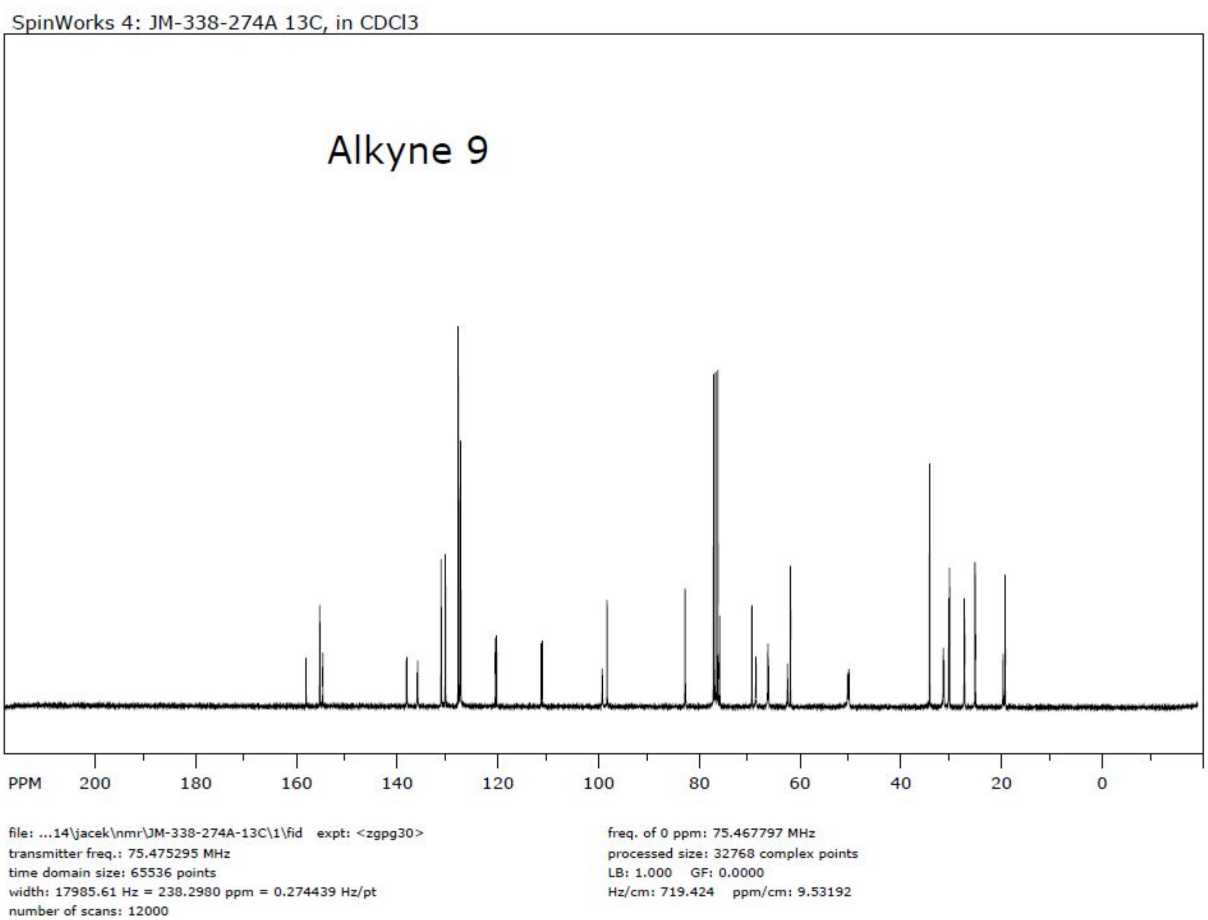
Expanded spectra of Alkyne 8

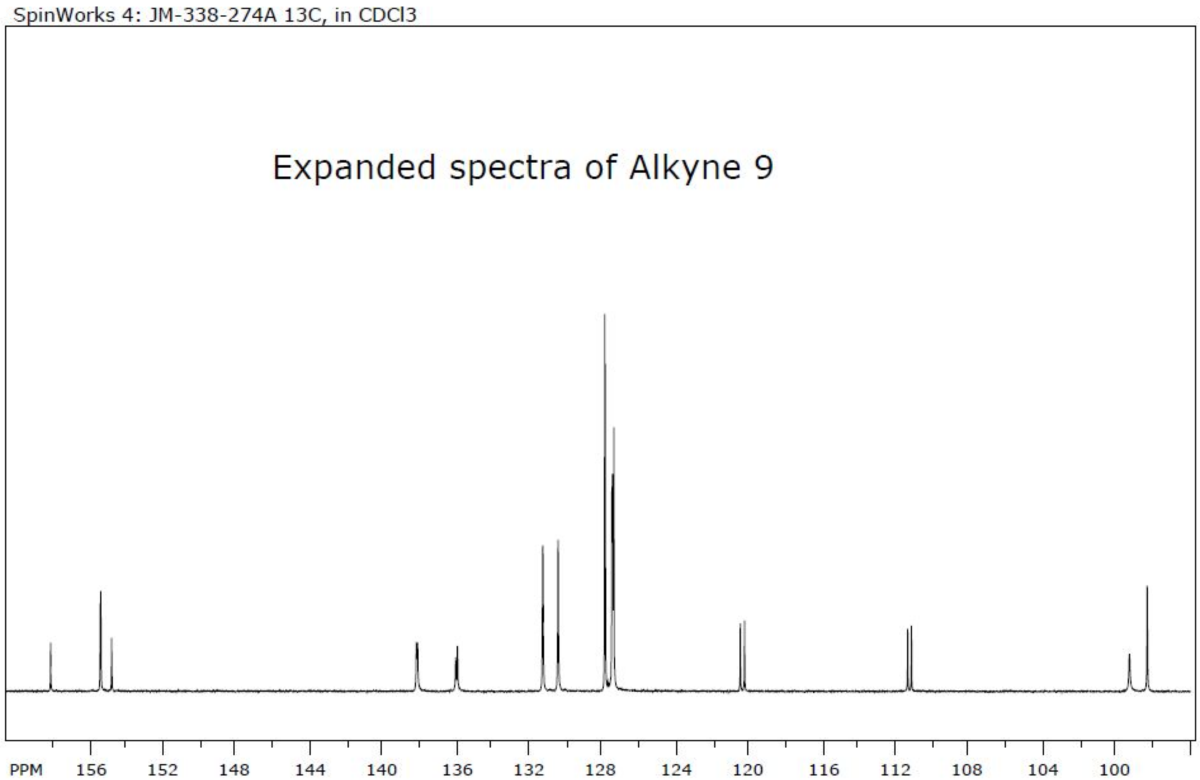


Expanded spectra of Alkyne 8

^{13}C-NMR assignments for alkyne 9.







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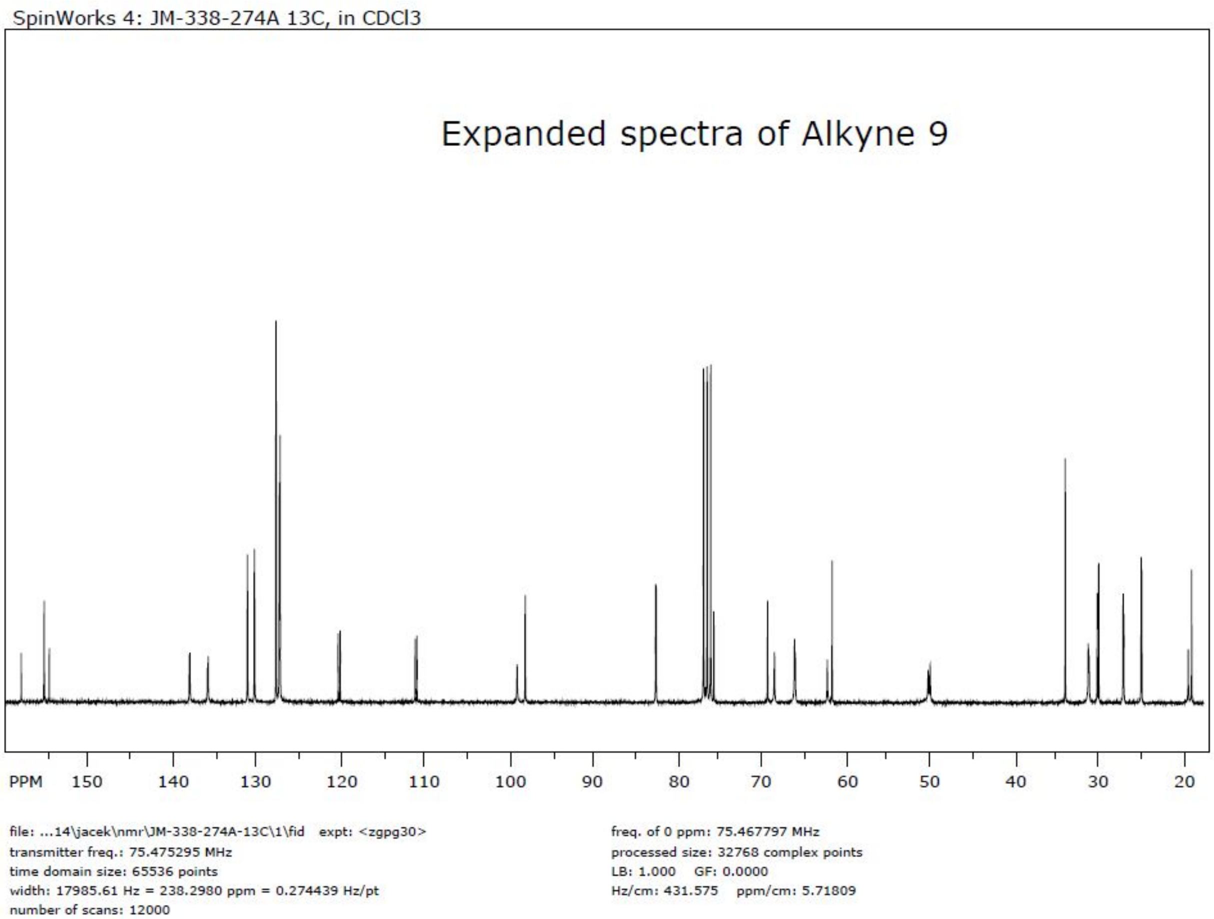
time domain size: 65536 points
width: 17985.61 Hz = 238.2980 ppm = 0.274439 Hz/pt
number of scans: 12000

freq. of 0 ppm: 75.467797 MHz
processed size: 32768 complex points
LB: 1.000 GF: 0.0000
Hz/cm: 196.025 ppm/cm: 2.59721



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