

Supporting Information for

**Cu(I)/TF-BiphamPhos-Catalyzed Asymmetric Michael Addition of
Cyclic Ketimino Esters to Alkylidene Malonates**

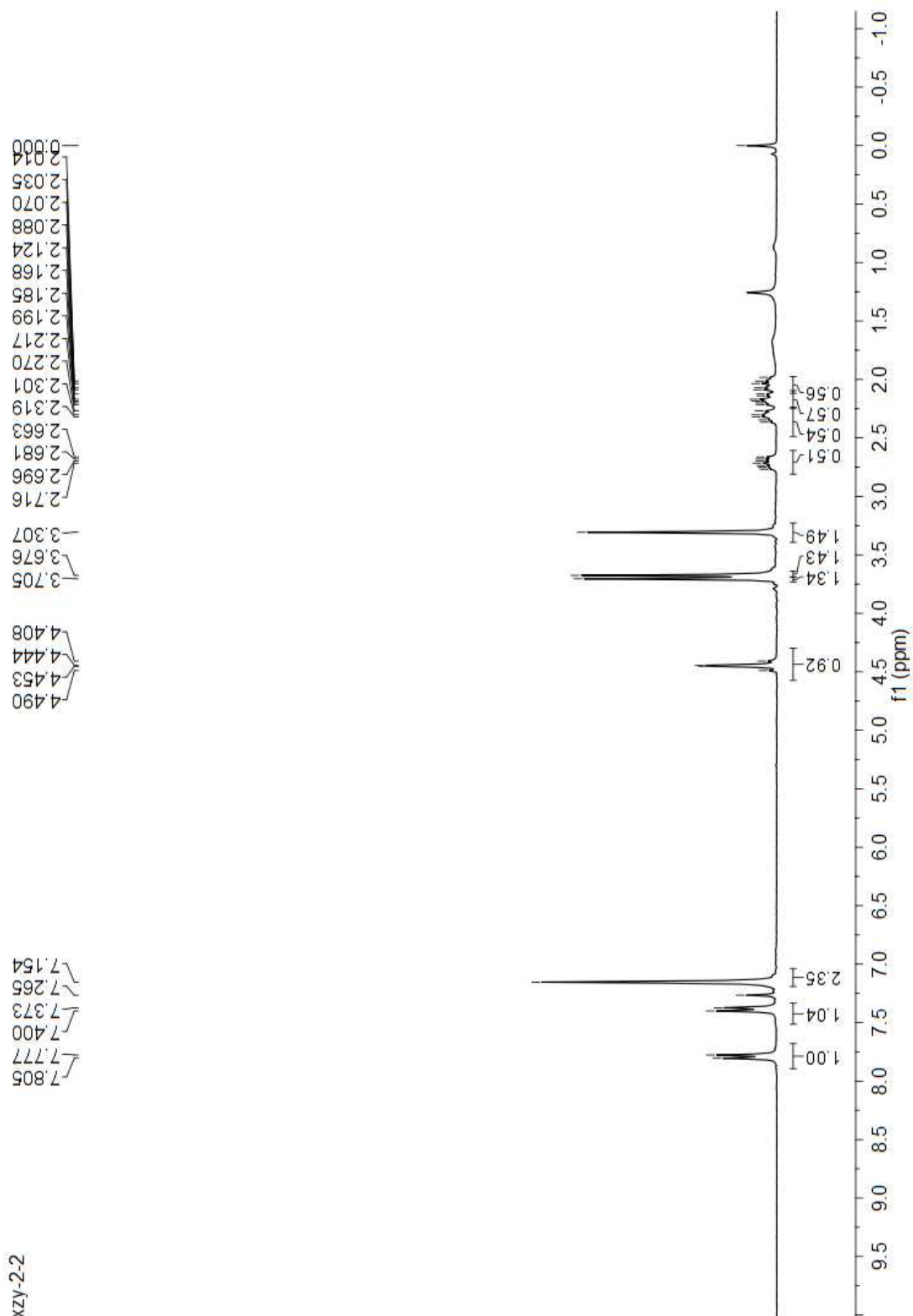
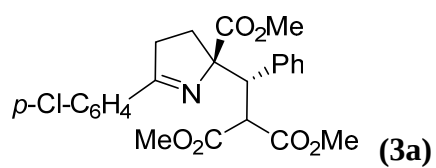
Zhi-Yong Xue, Zhi-Min Song, Chun-Jiang Wang*

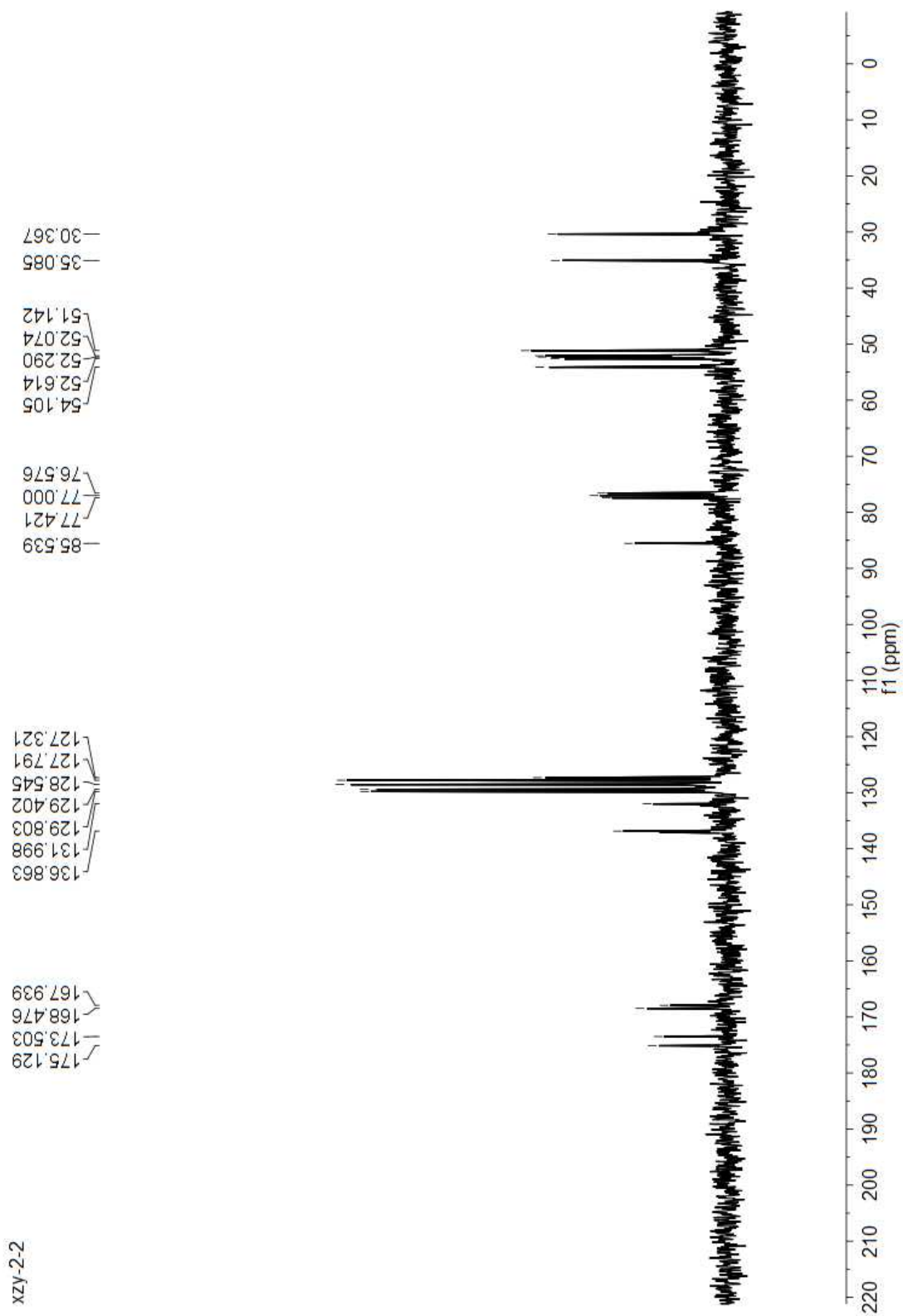
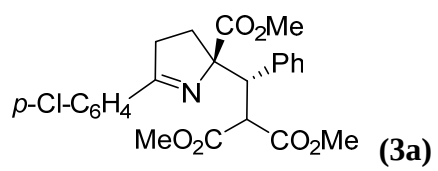
E-mail: cjwang@whu.edu.cn

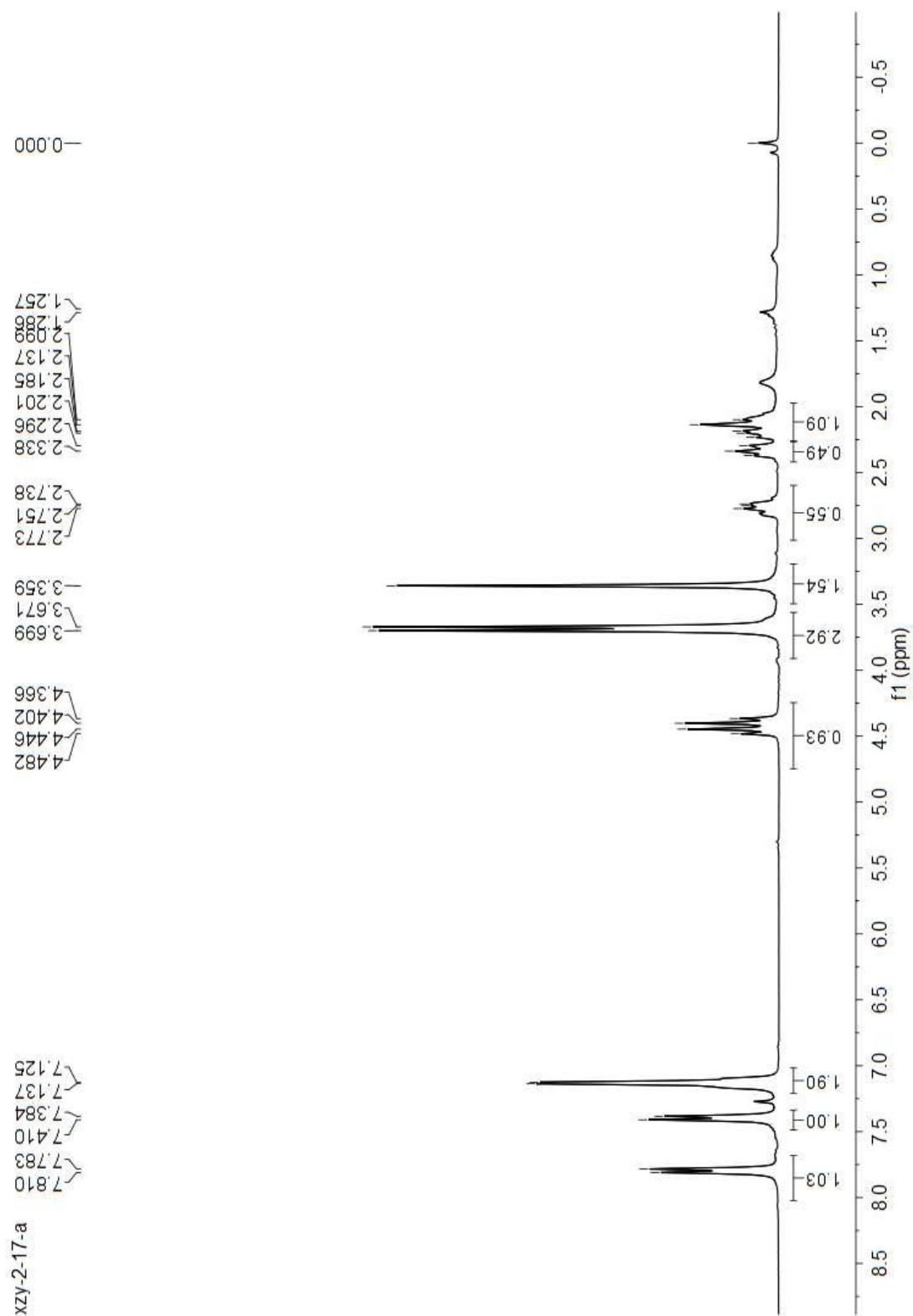
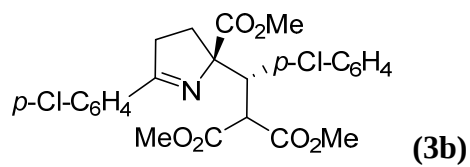
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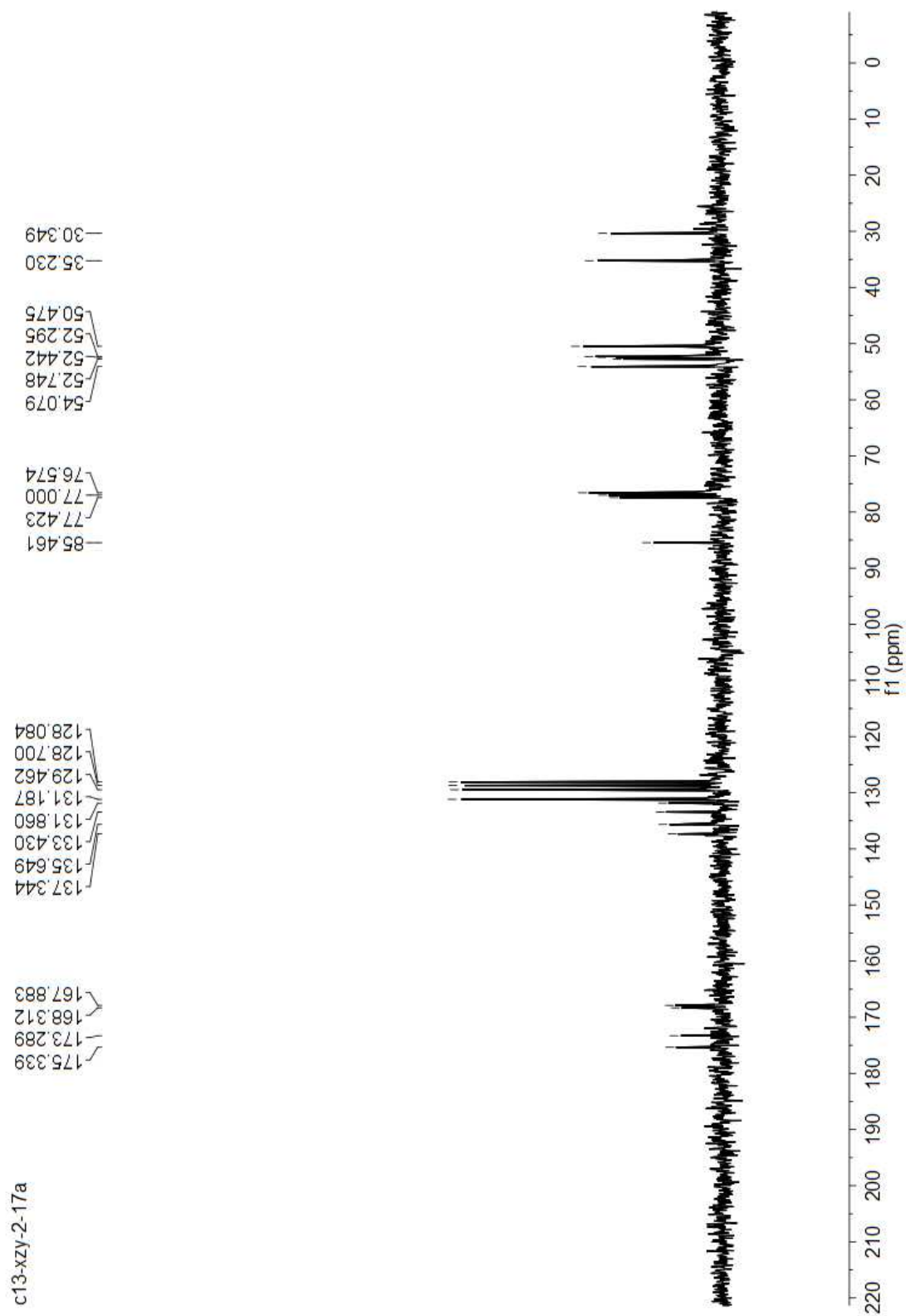
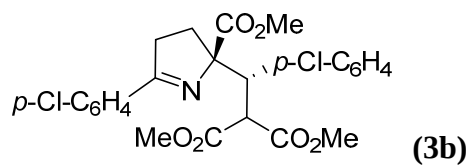
I.	¹ H NMR and ¹³ C NMR spectra.....	S2-31
II.	HPLC spectra.....	S32-61

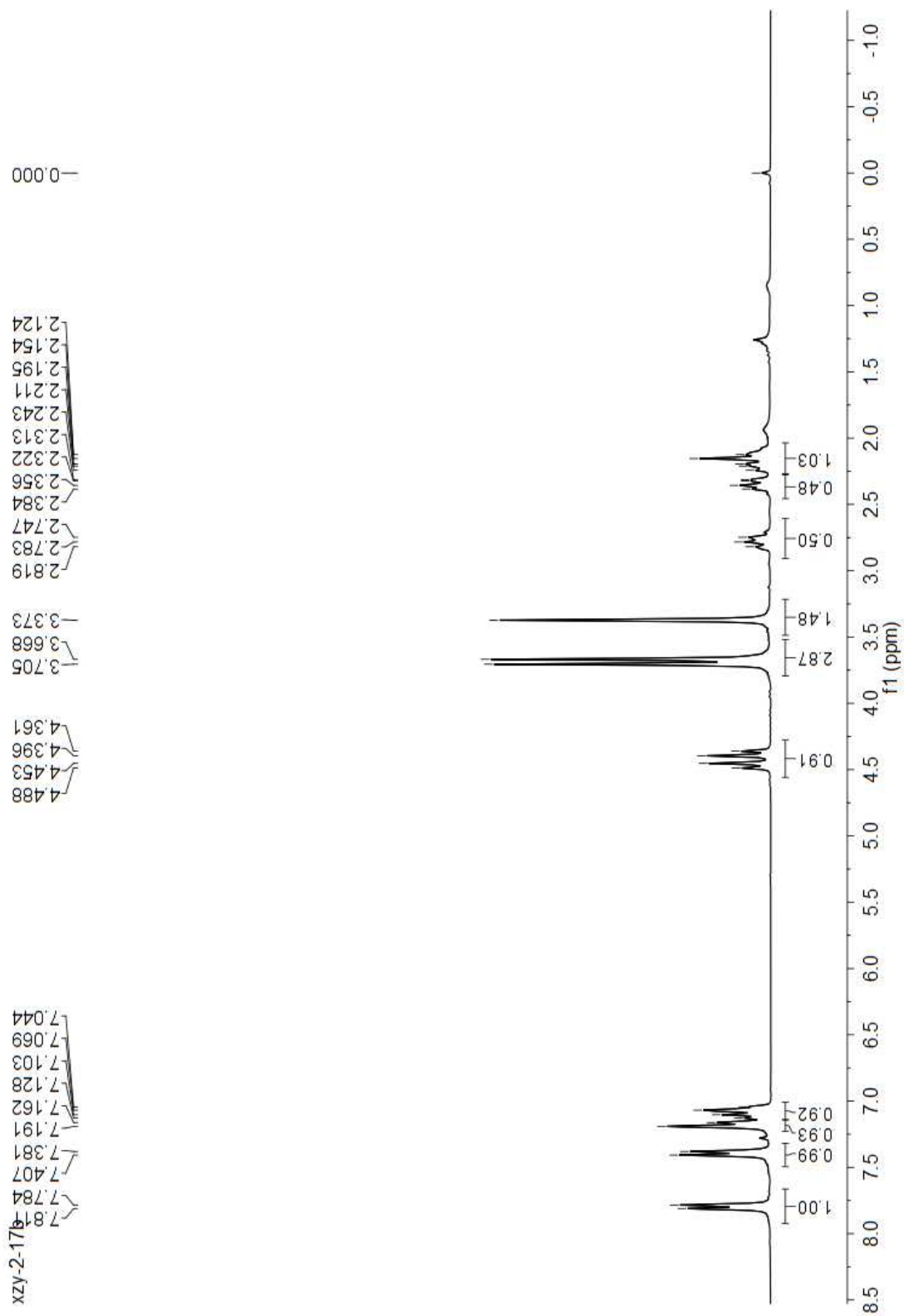
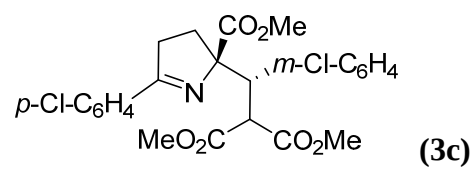
I. ^1H NMR and ^{13}C NMR spectra

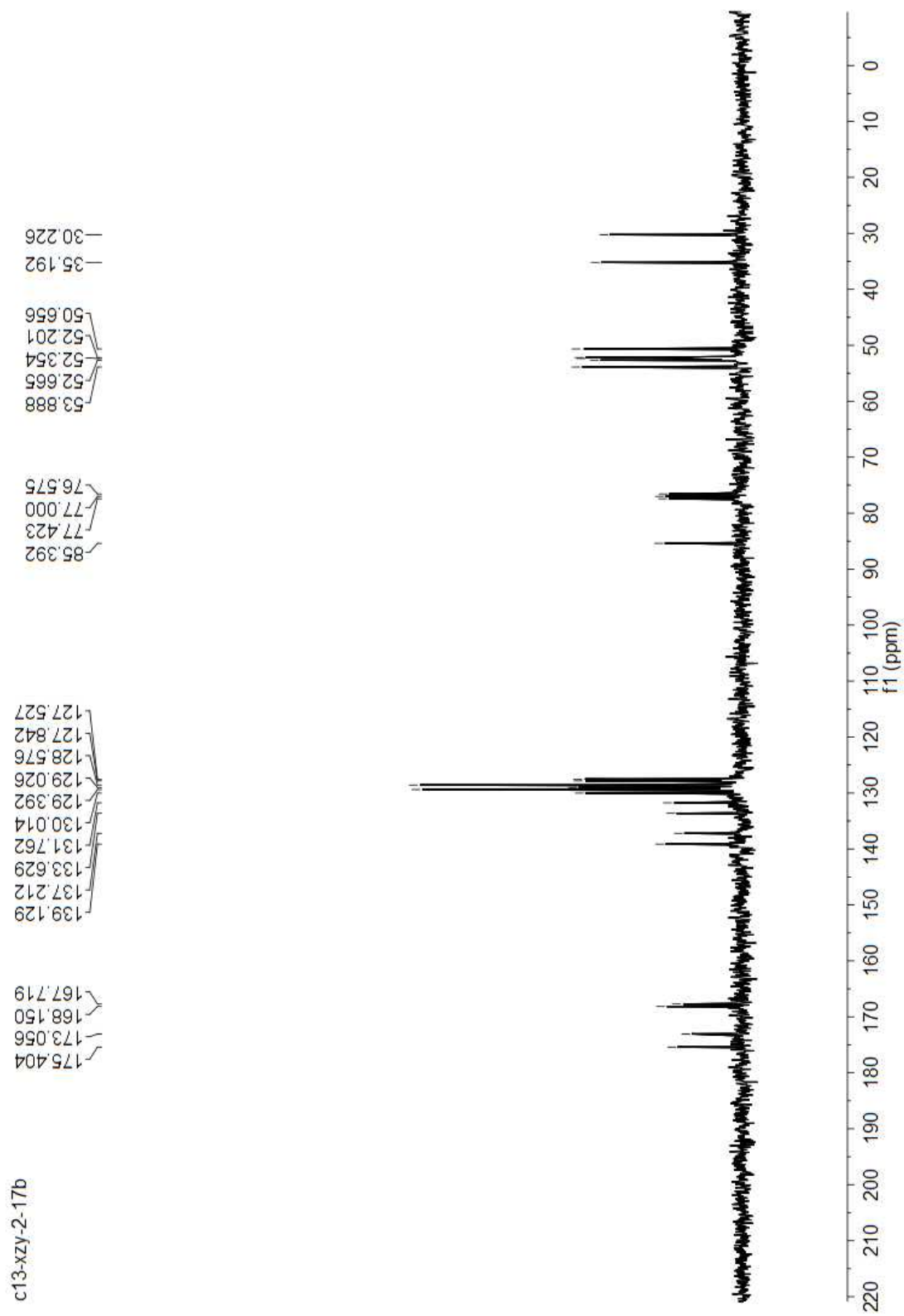
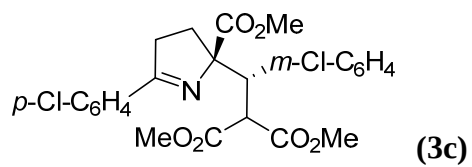


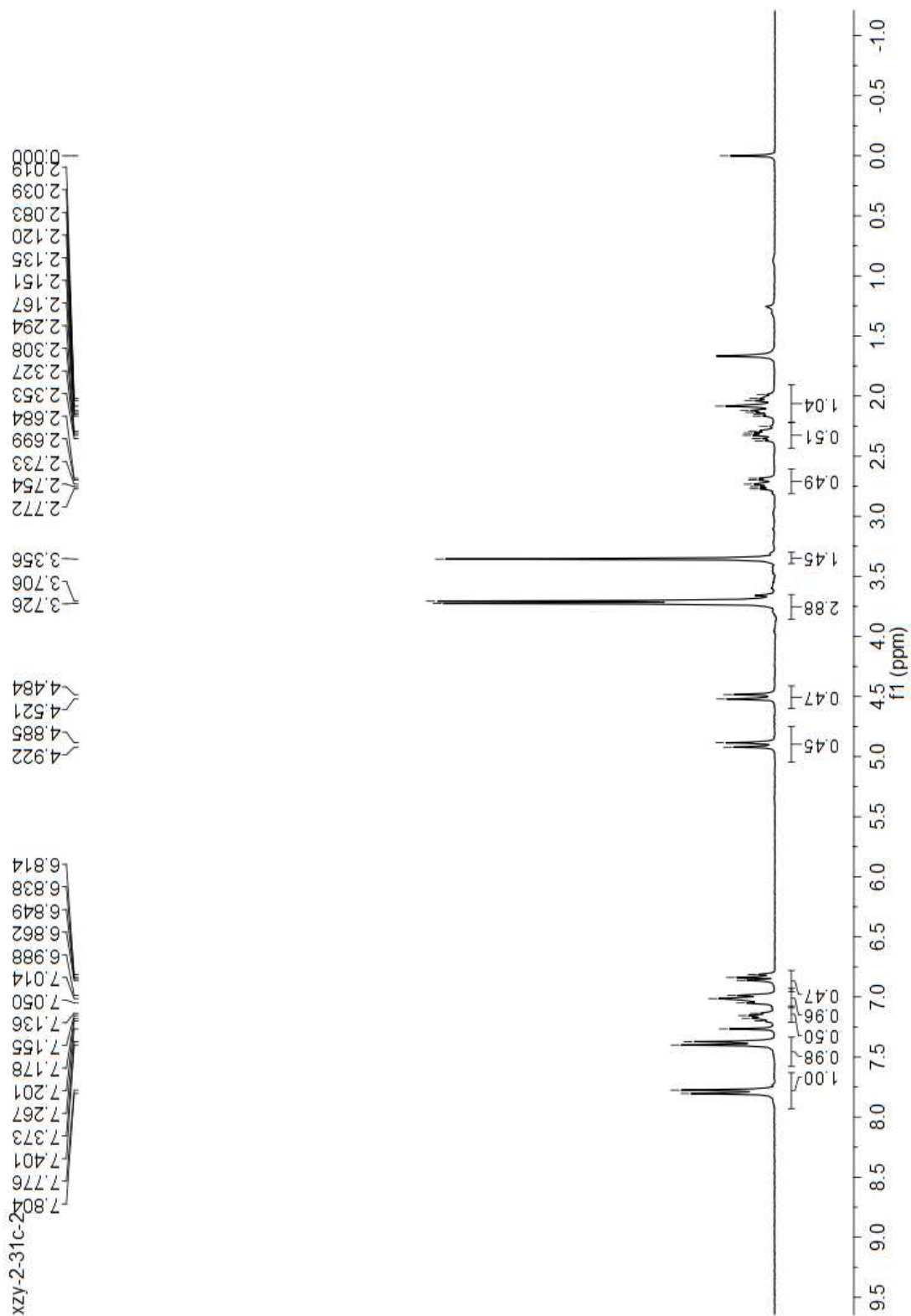
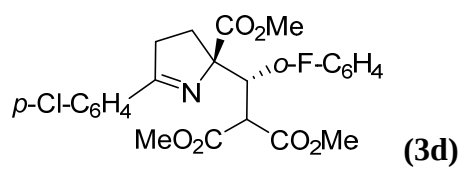


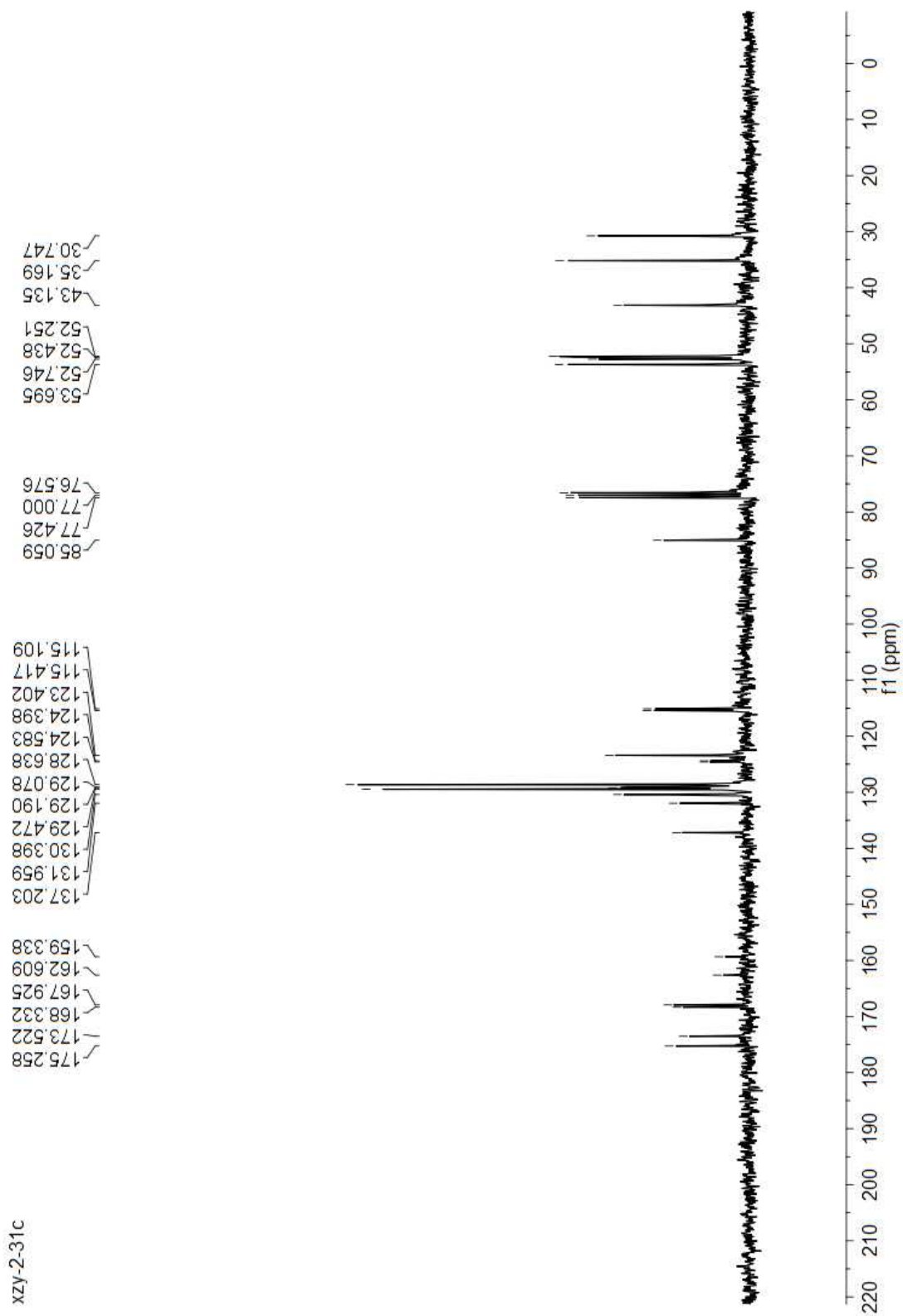
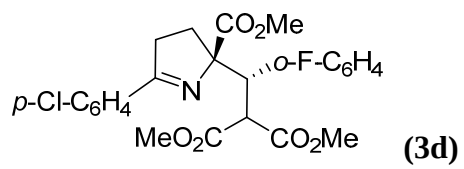


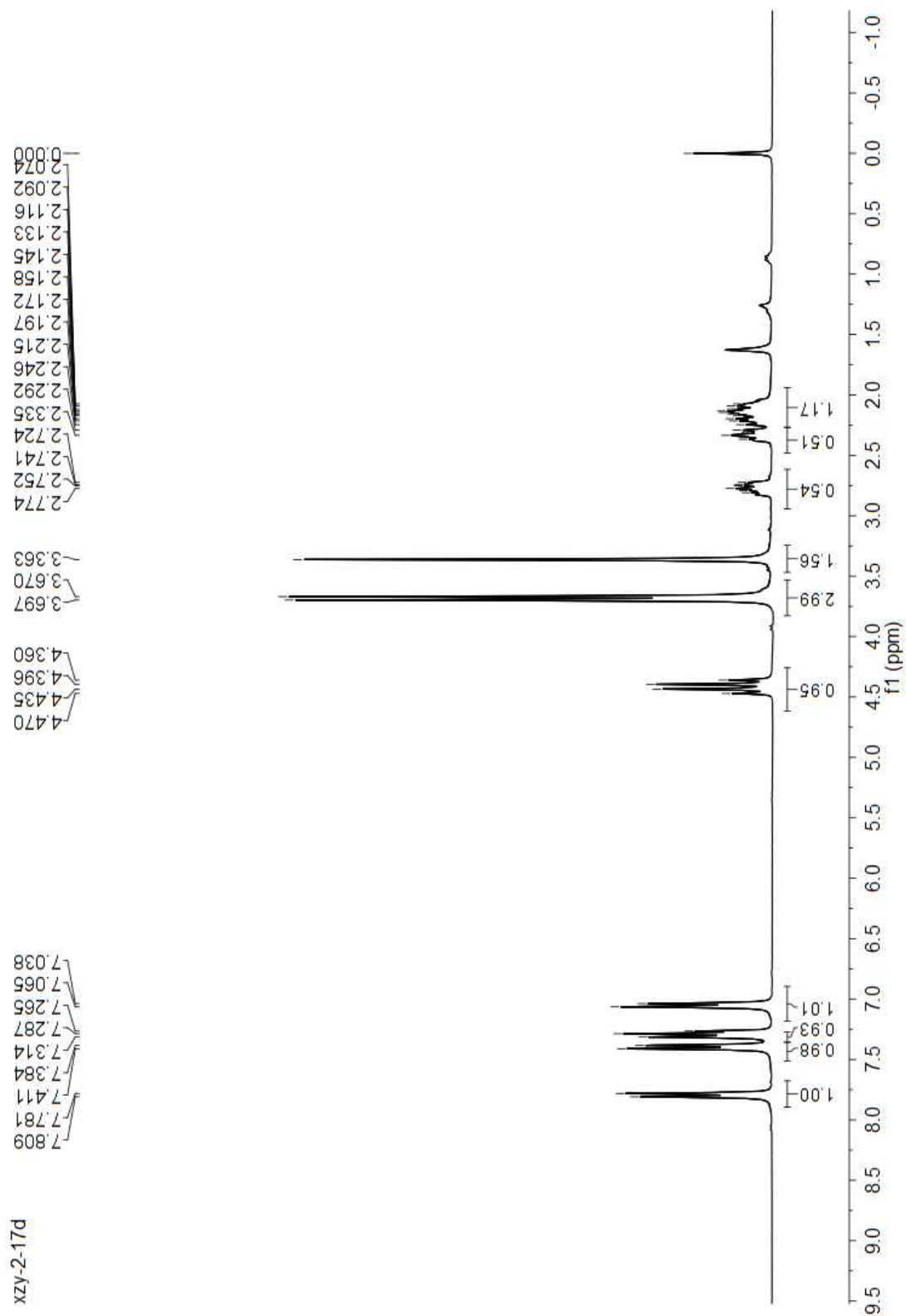
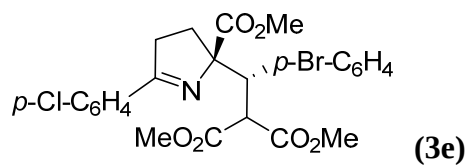


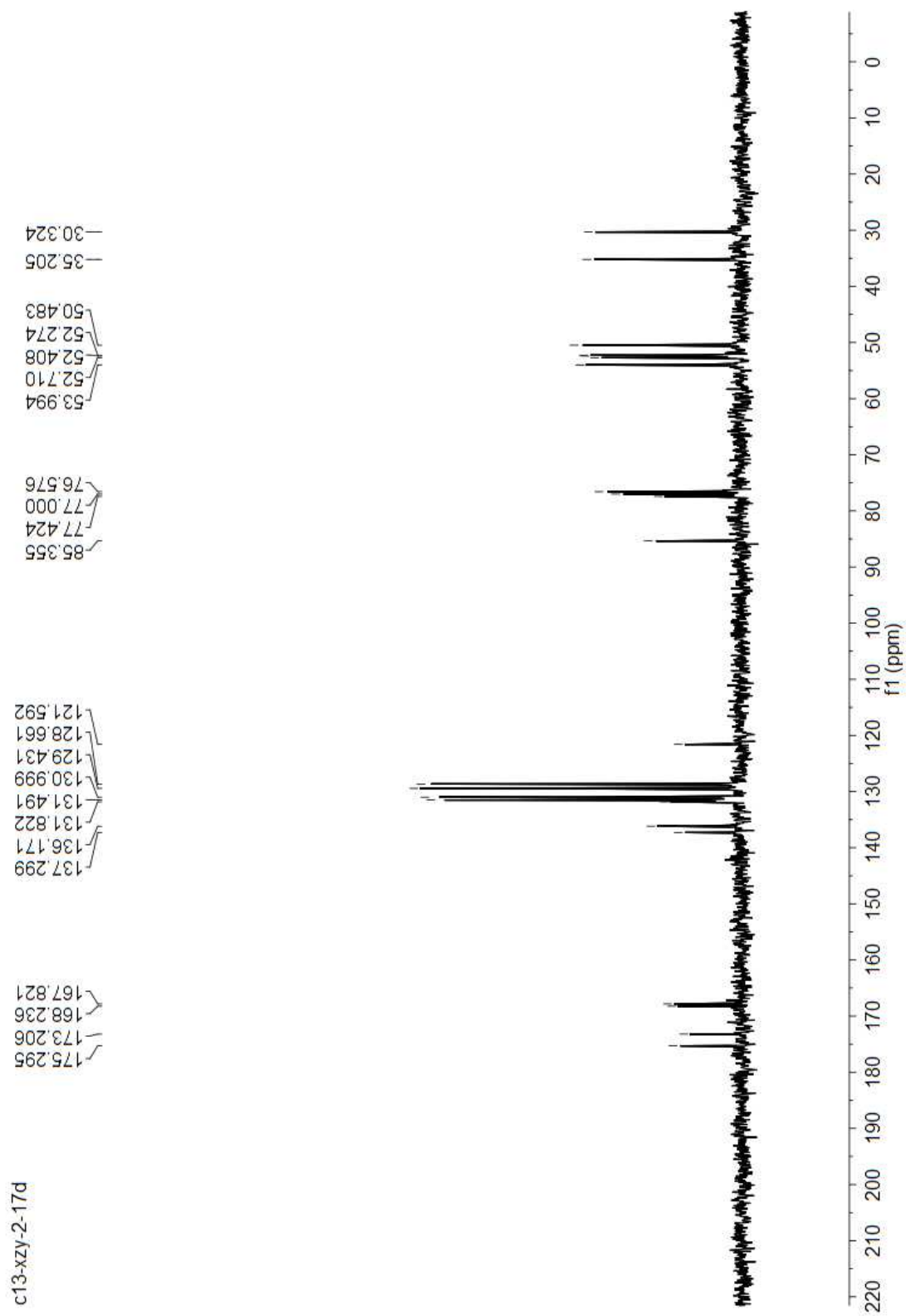
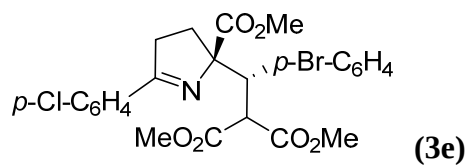


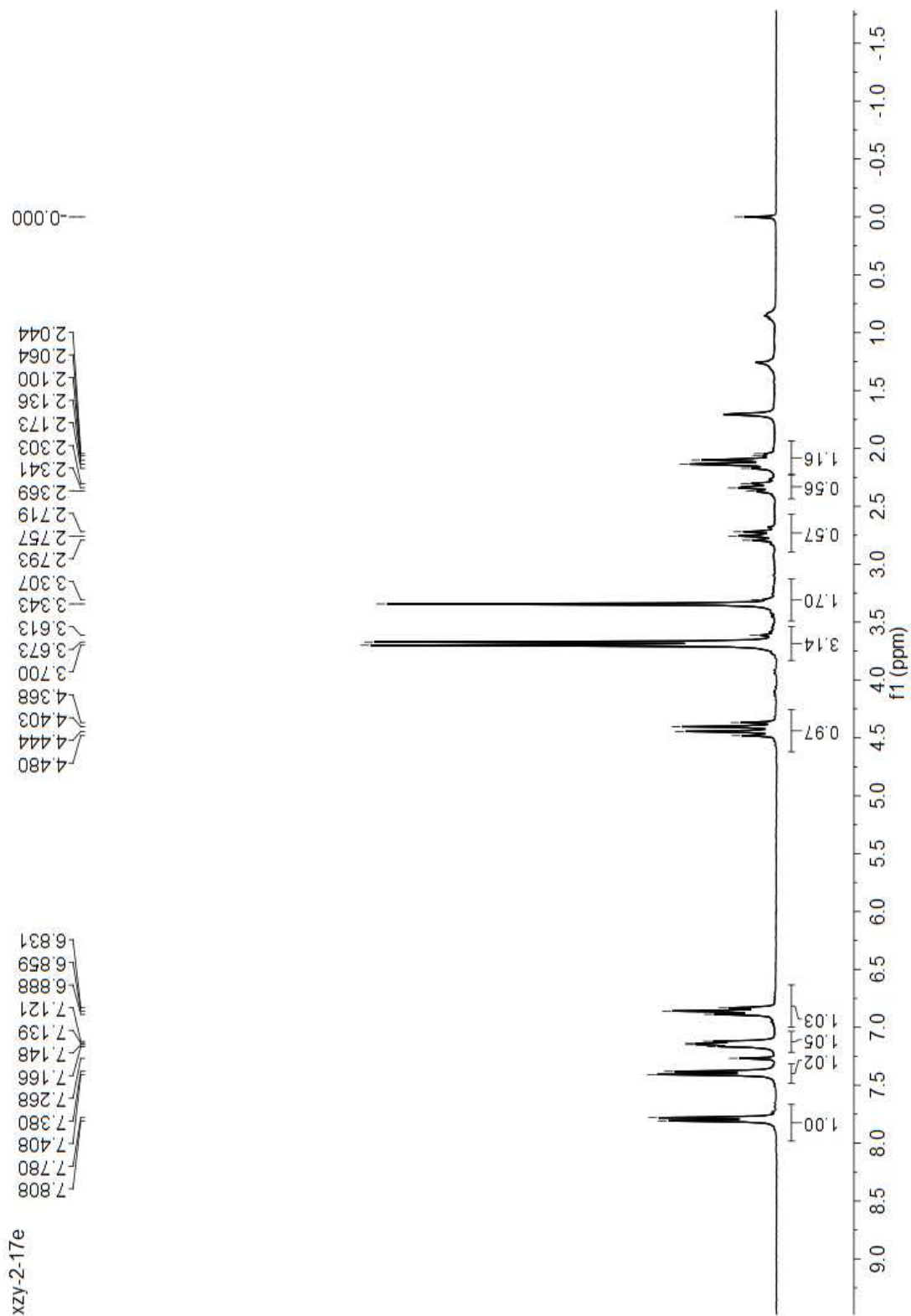
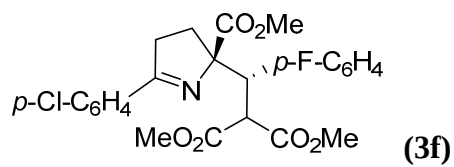


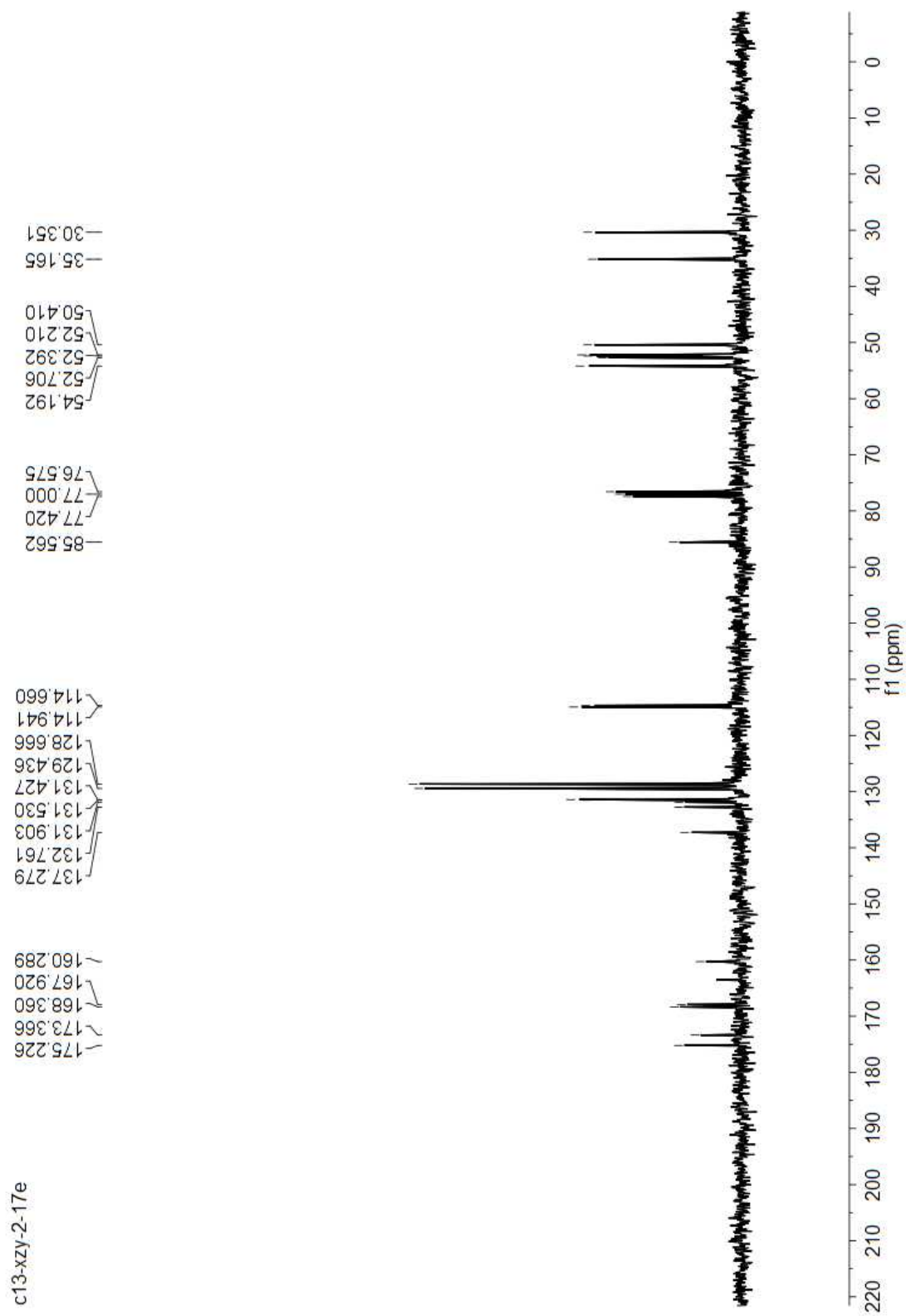
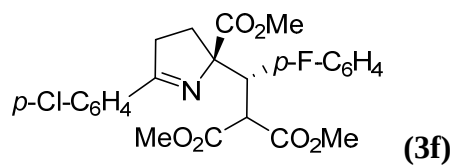


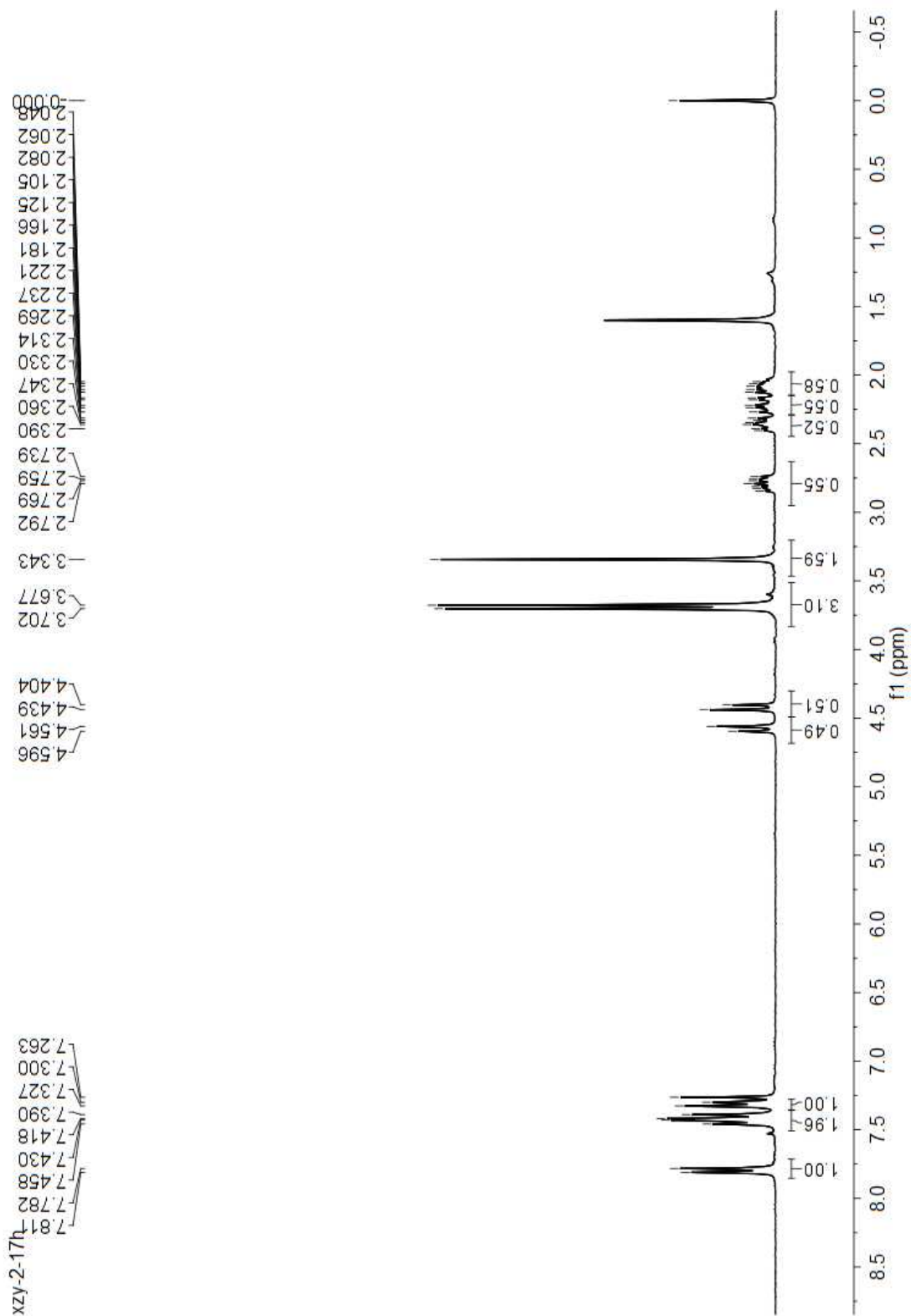
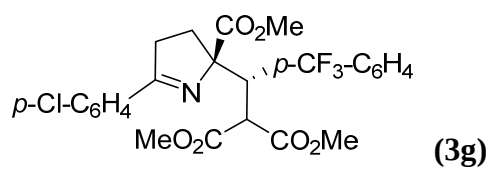


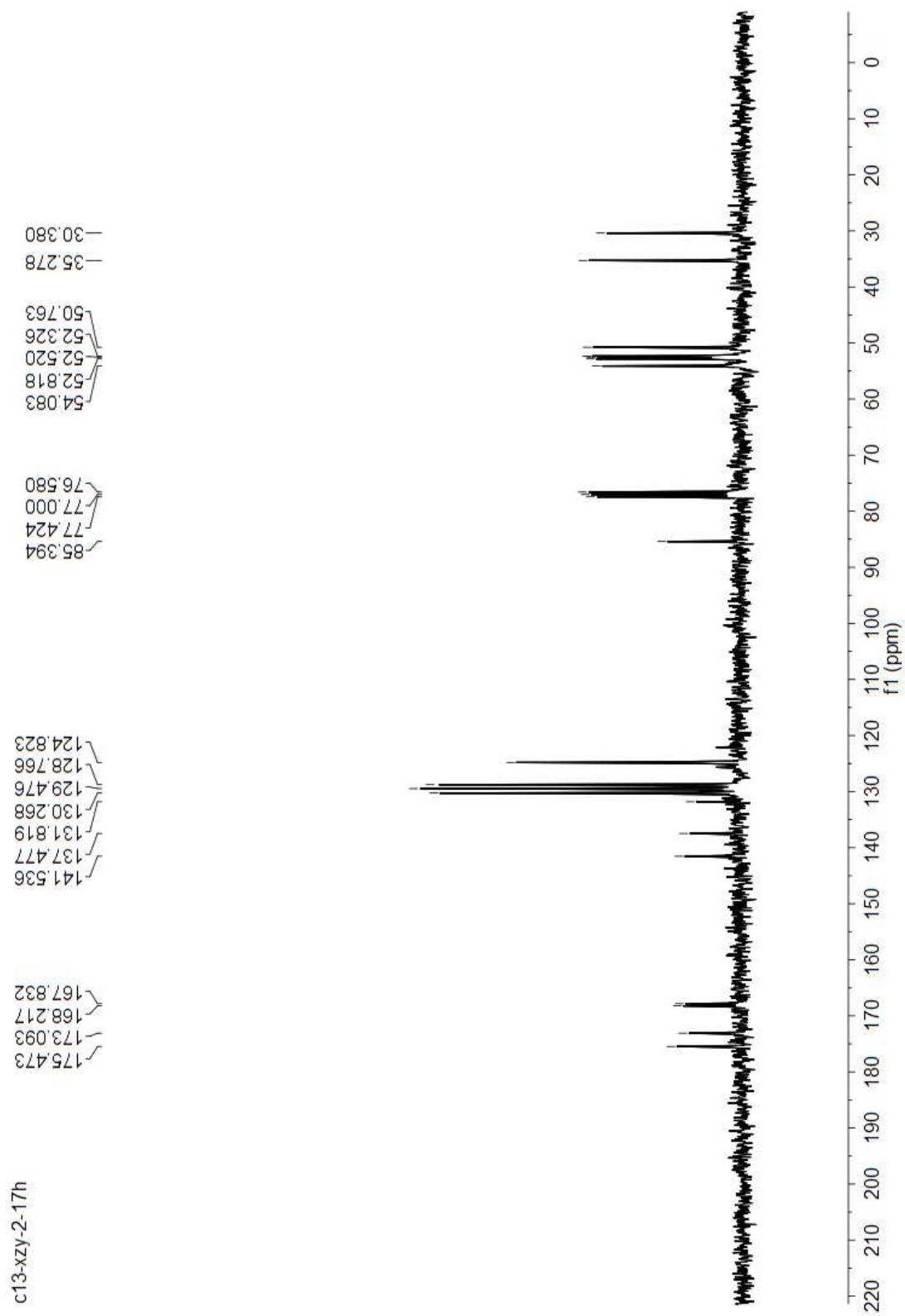
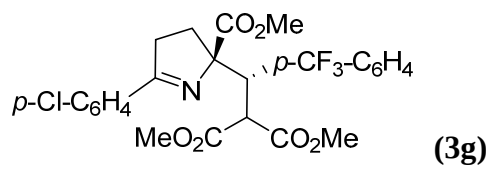


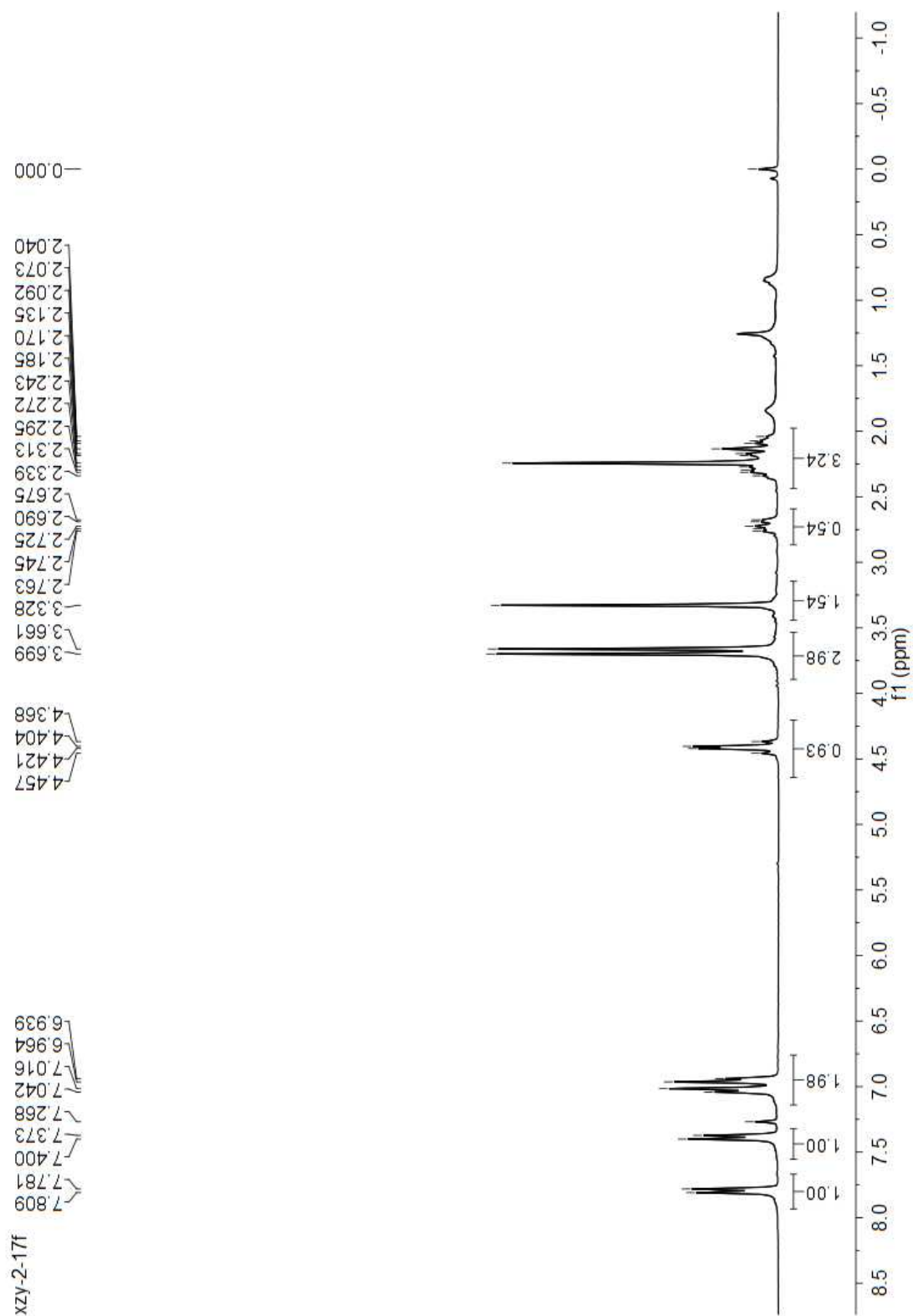
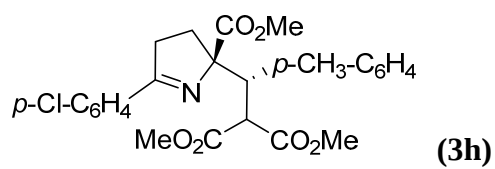


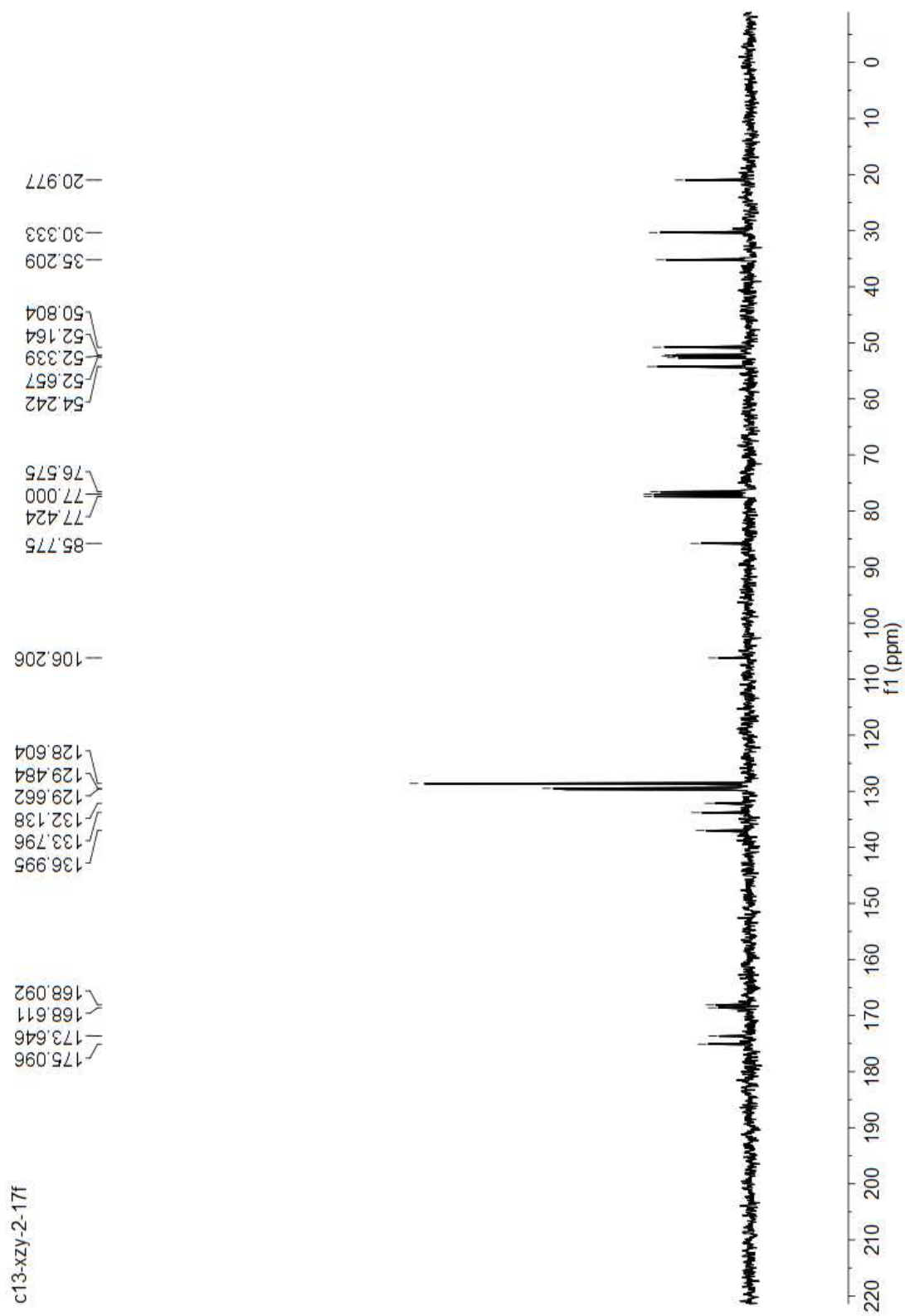
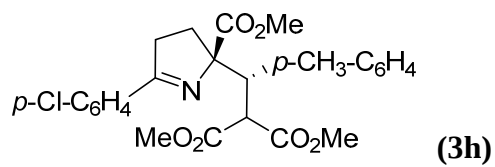


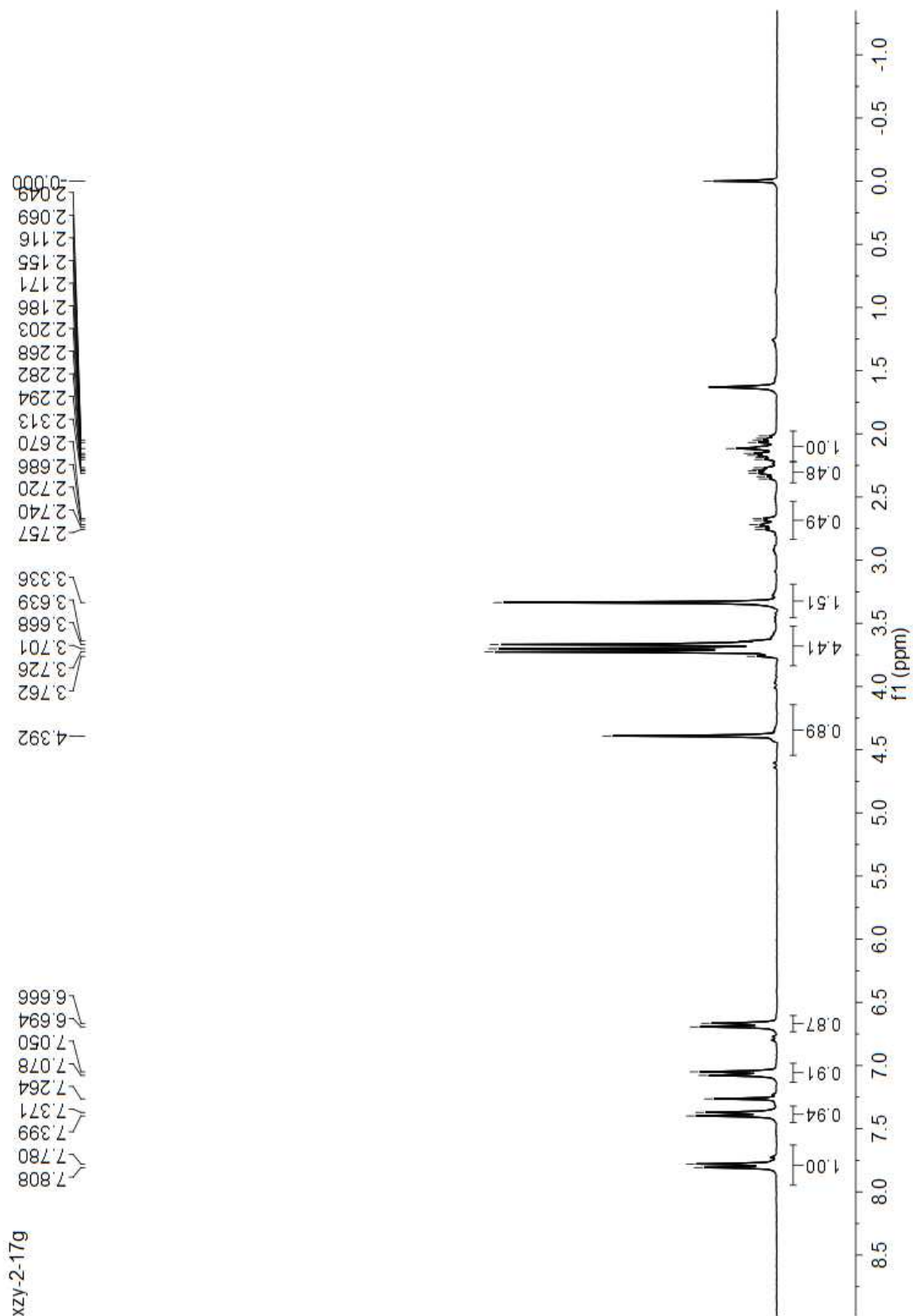
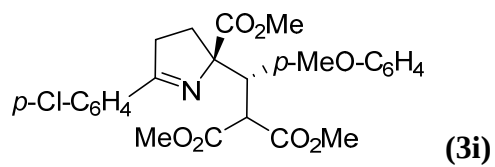


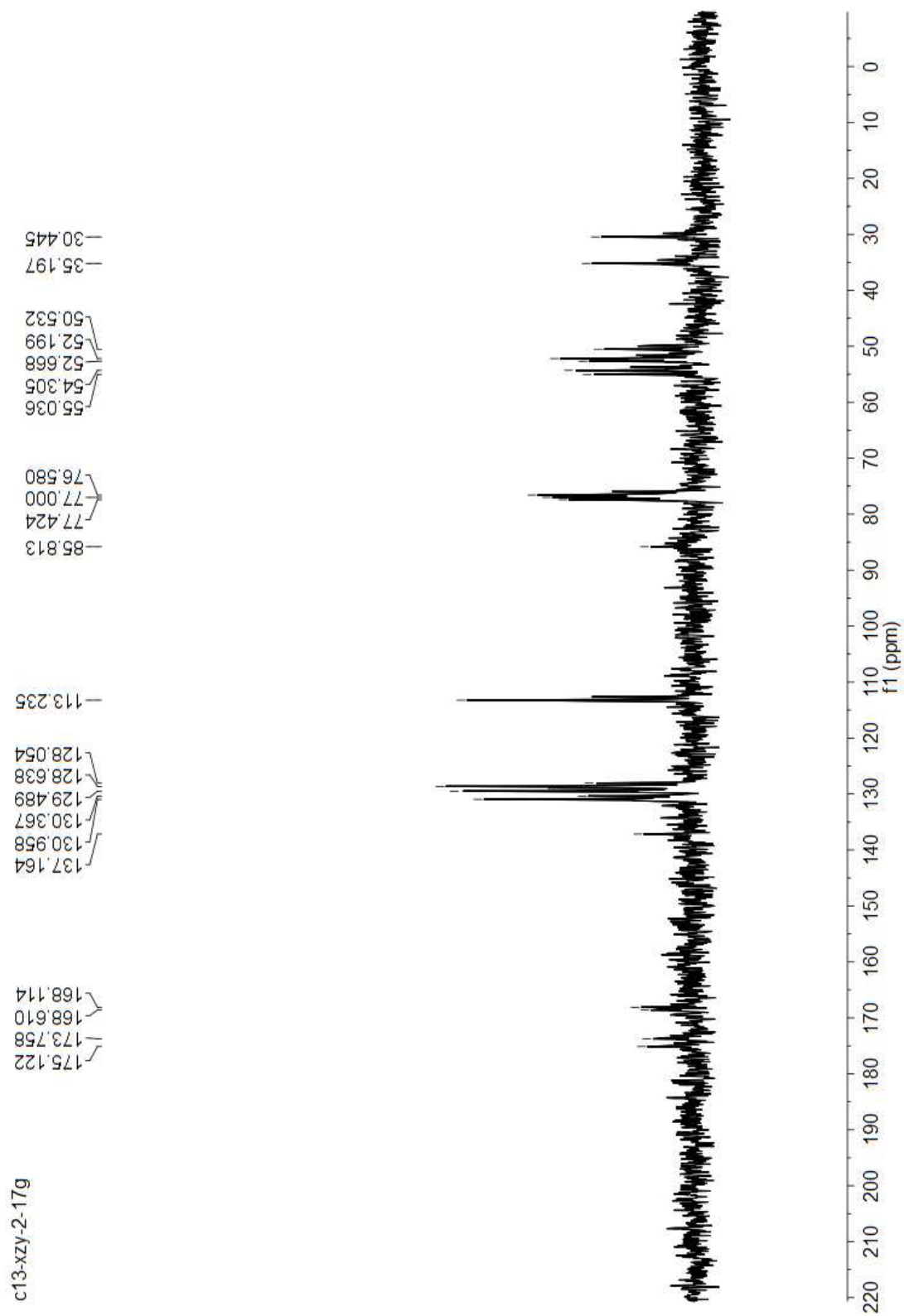
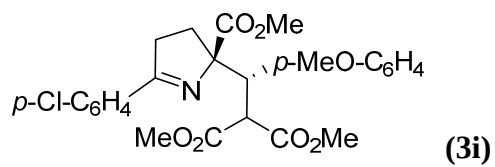




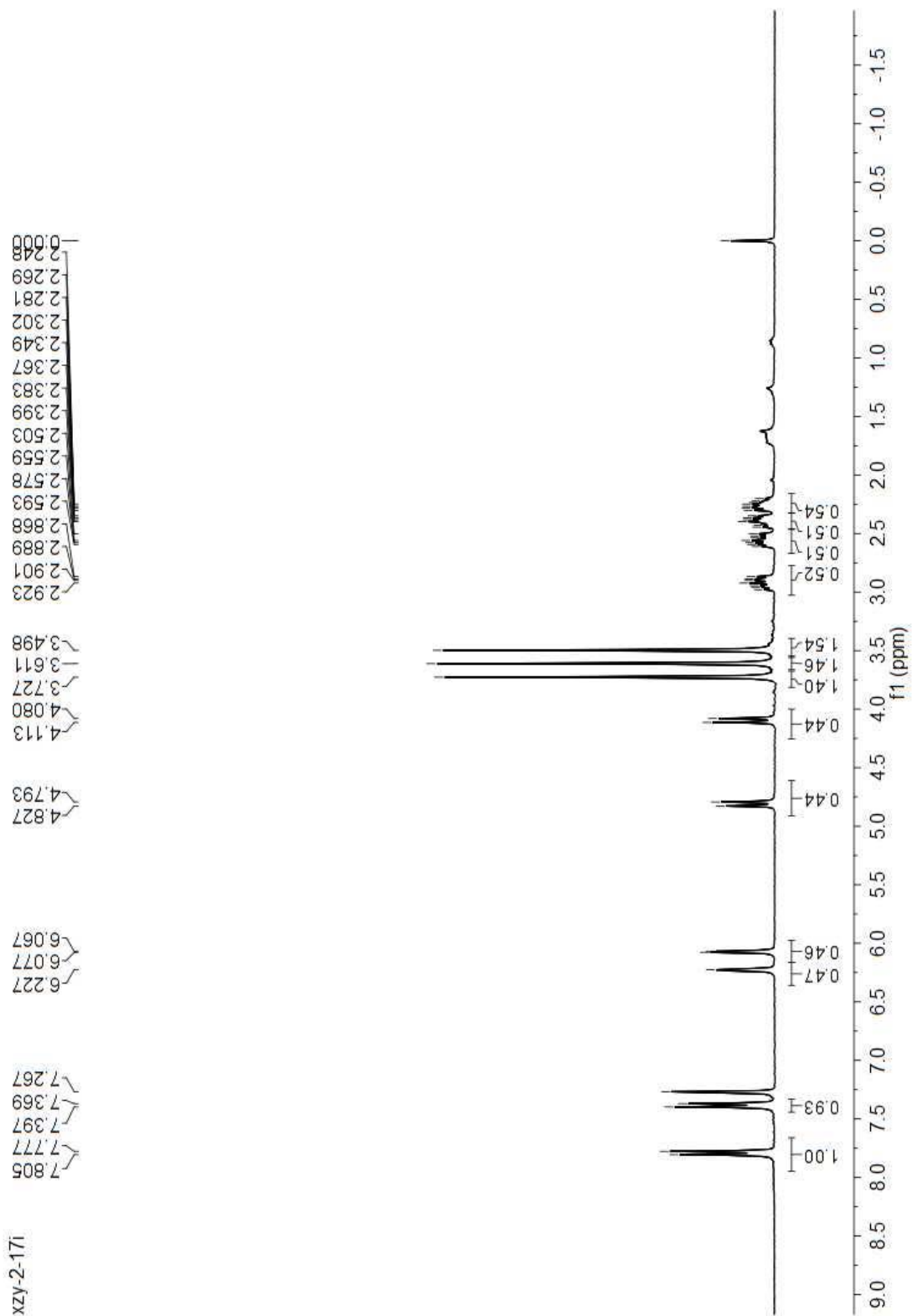
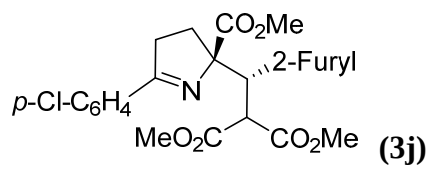


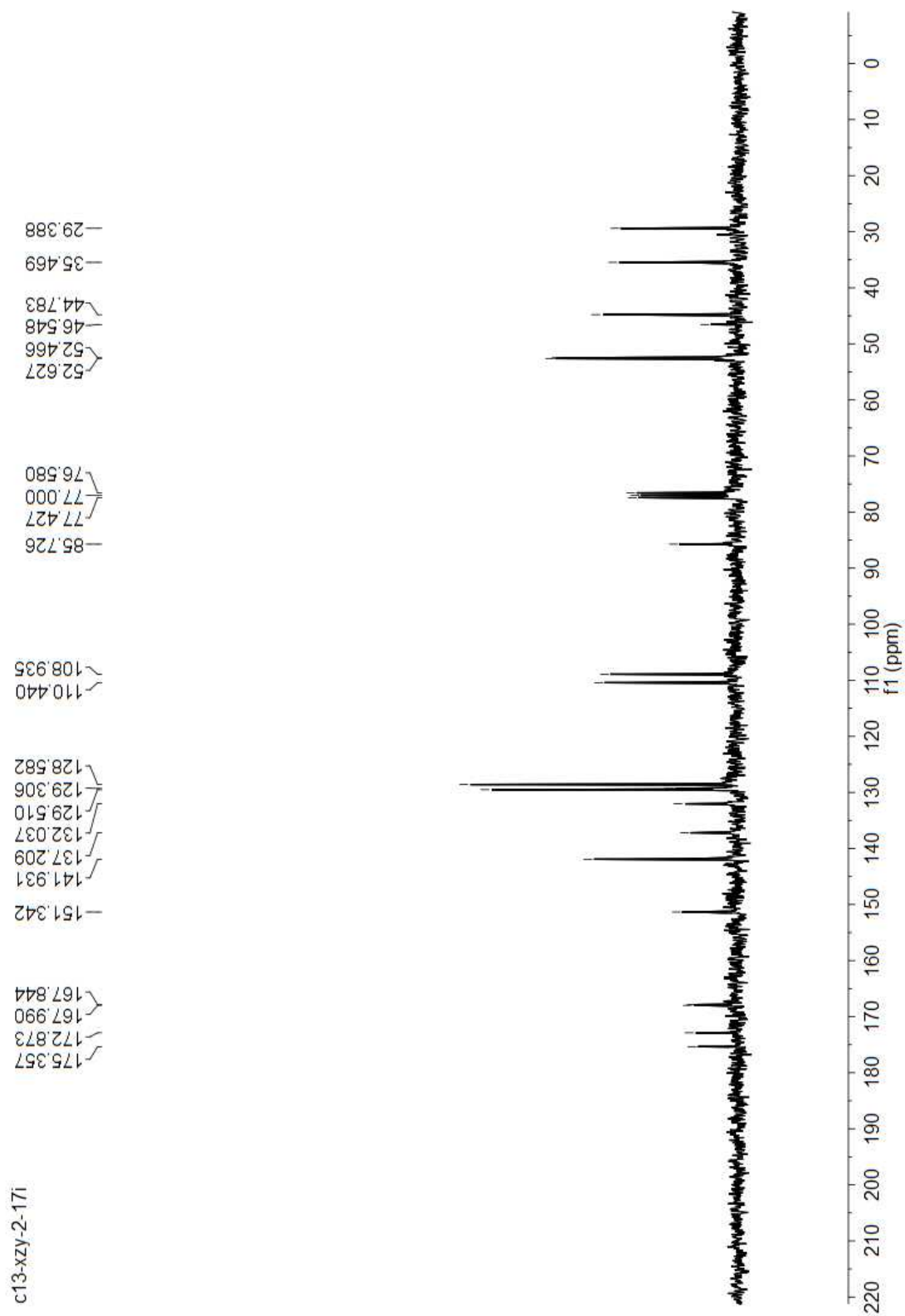
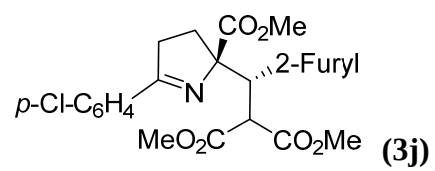


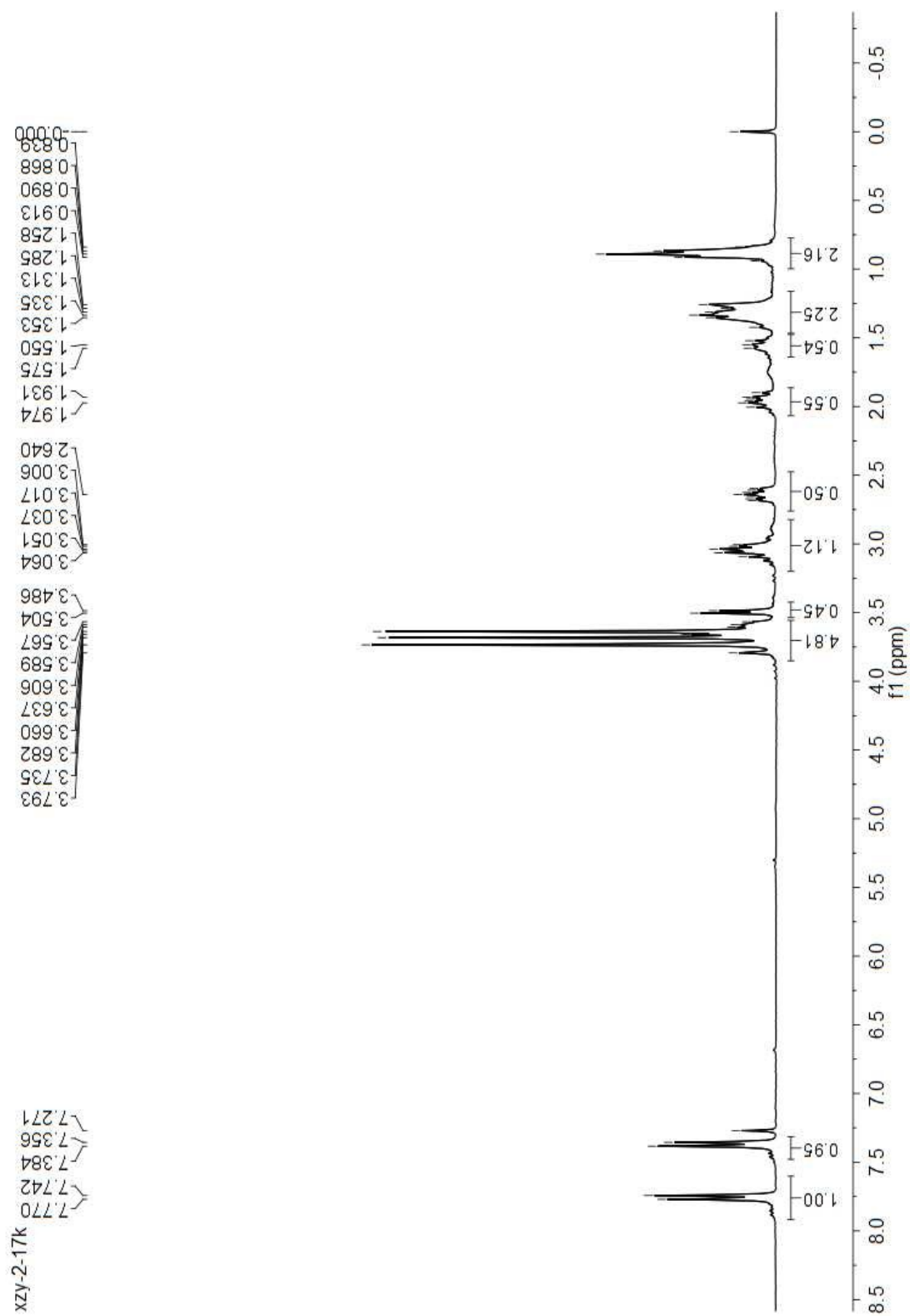
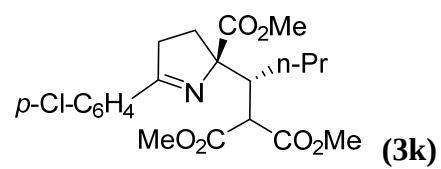


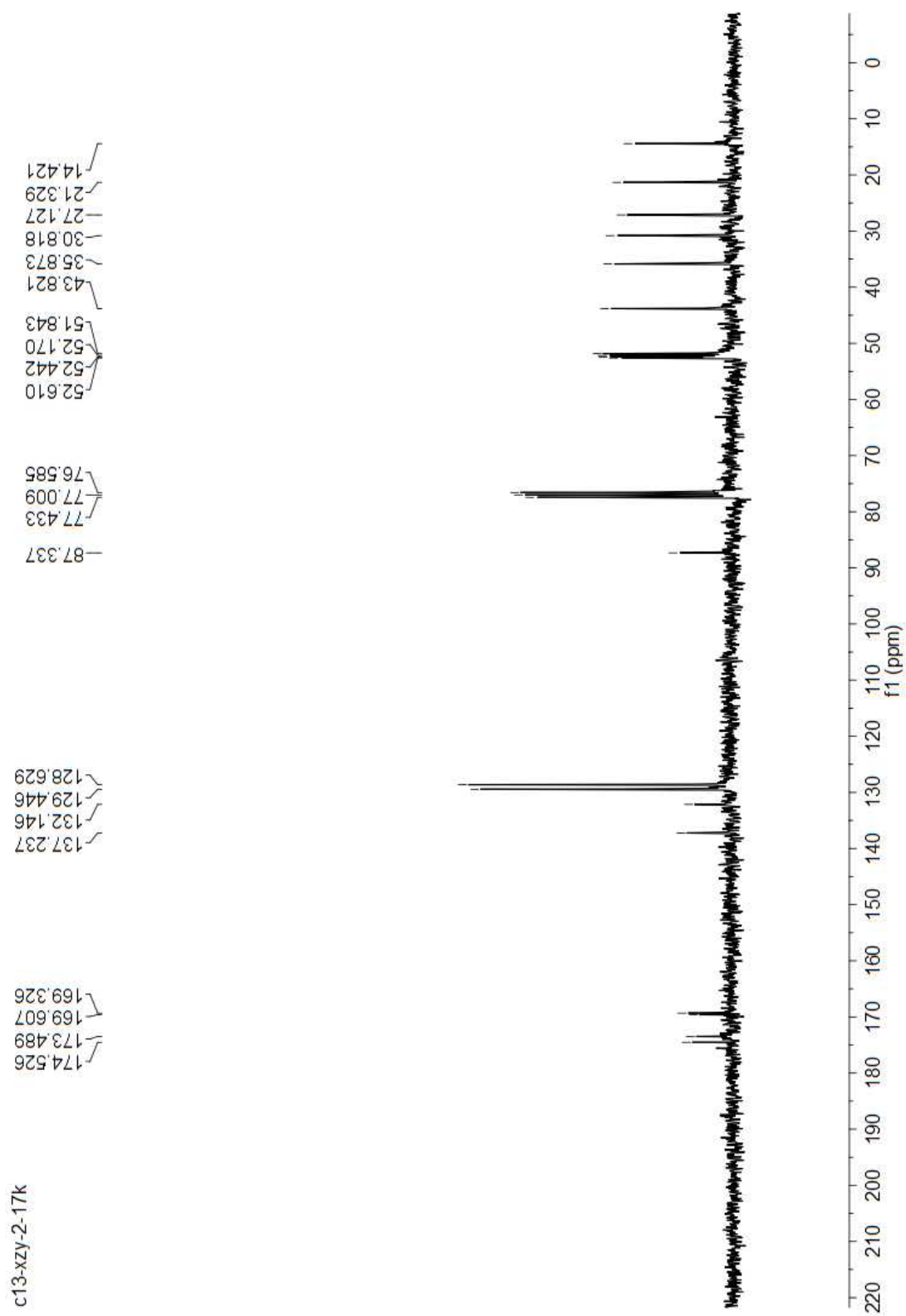
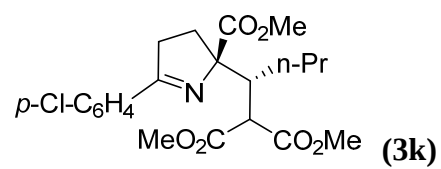


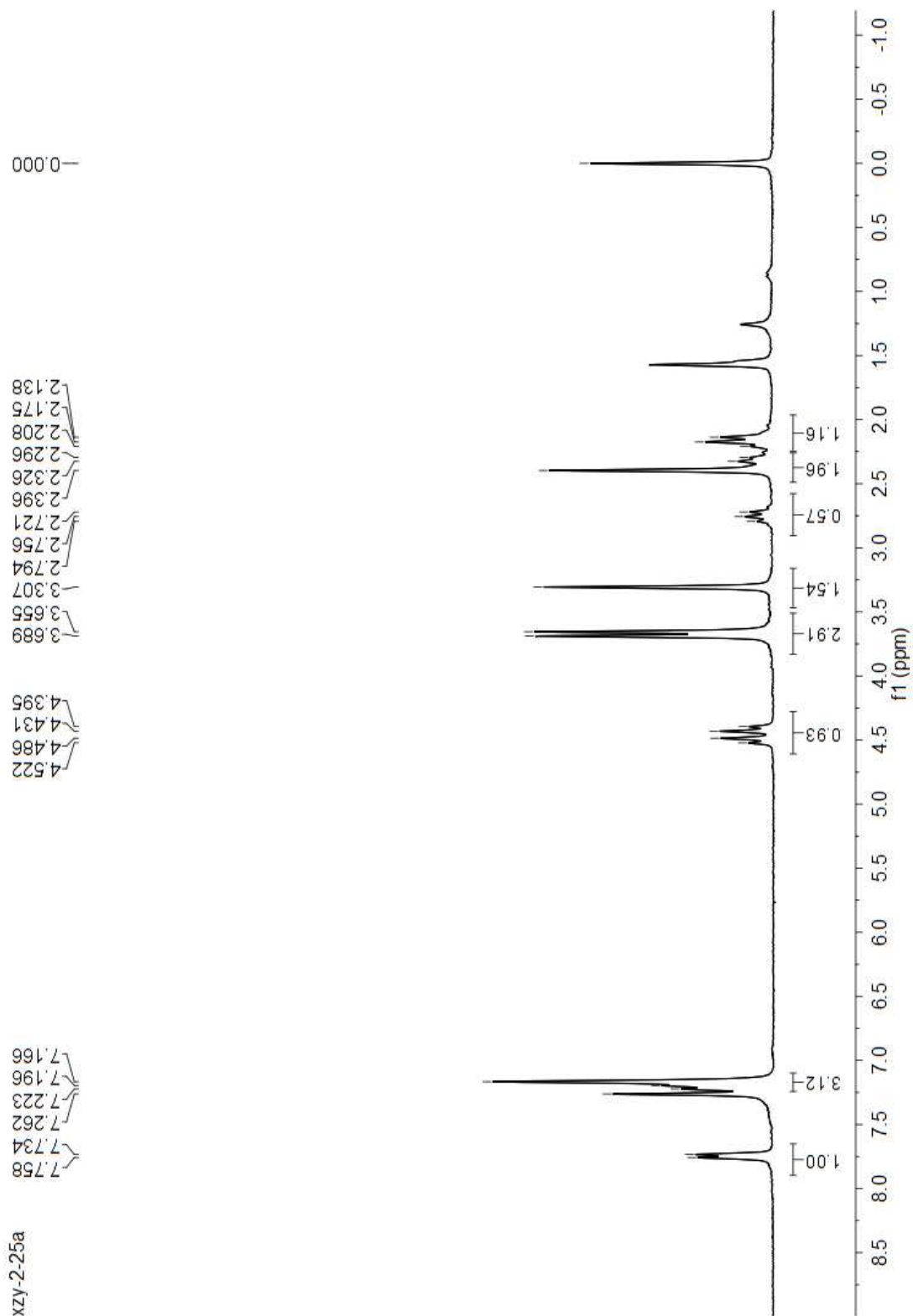
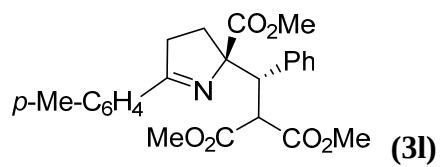
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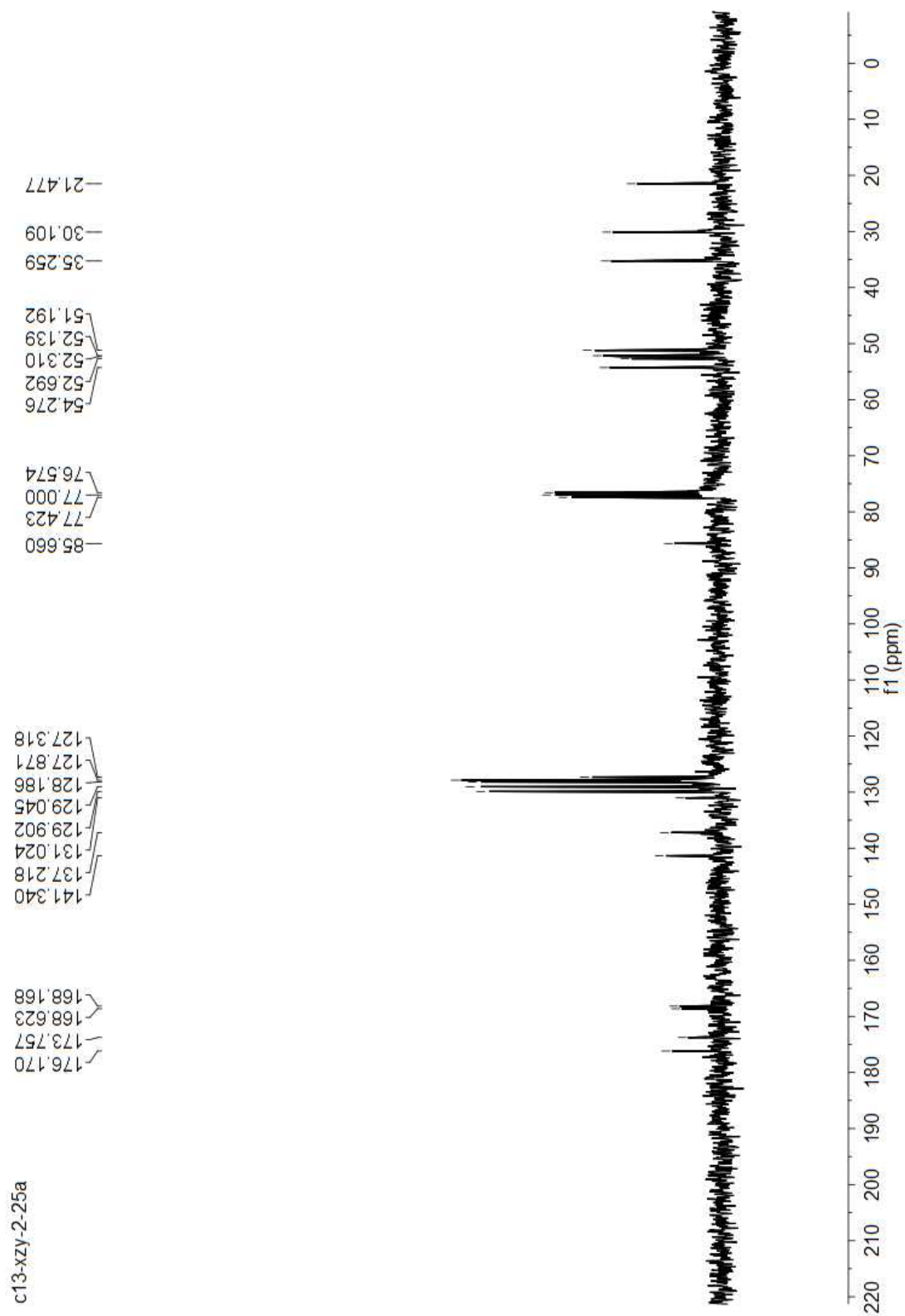
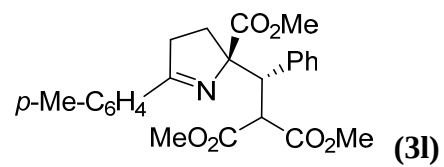


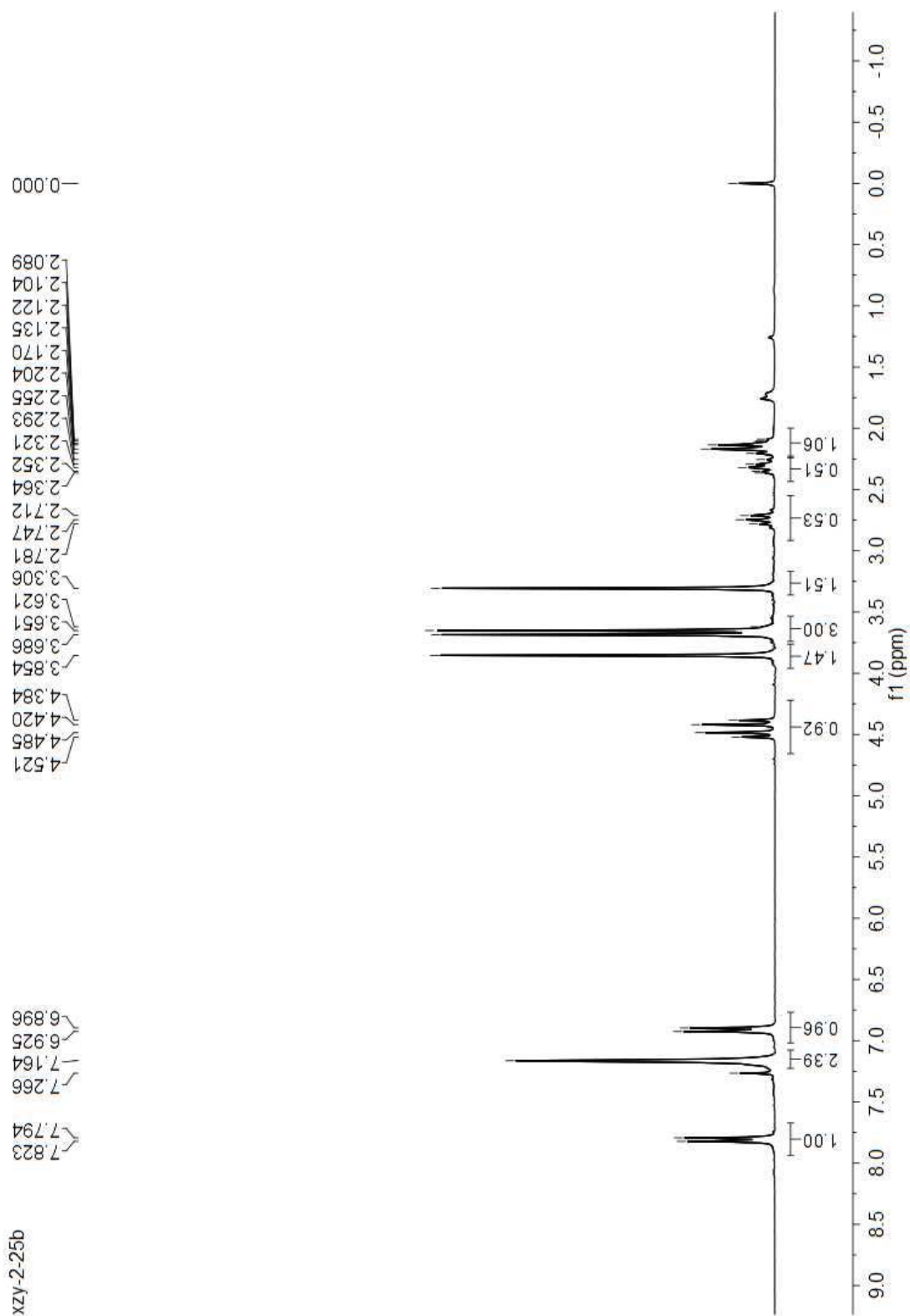
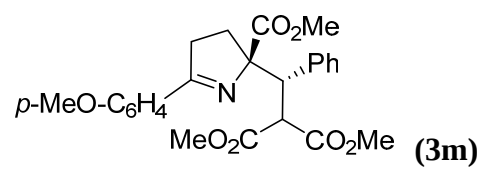


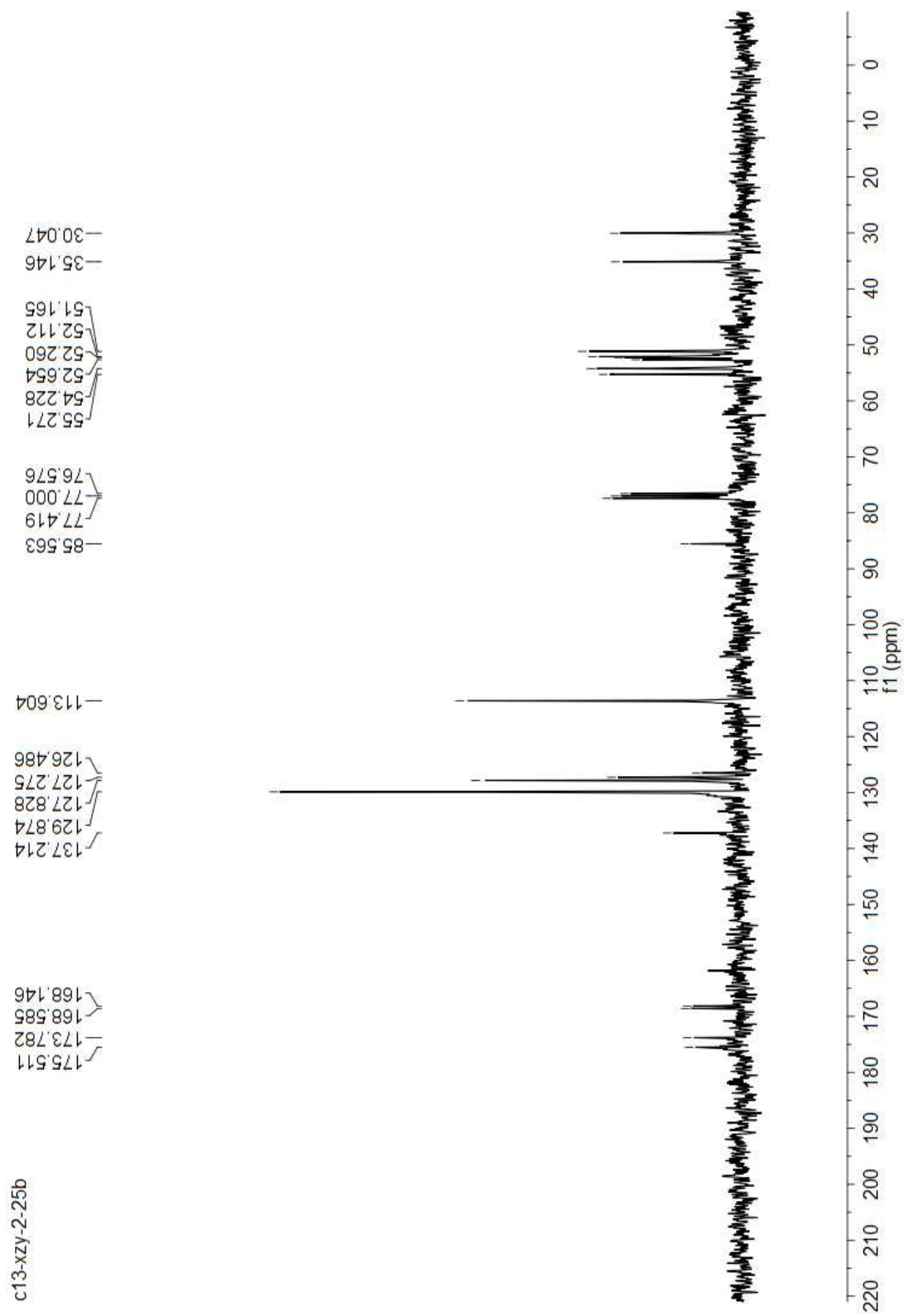
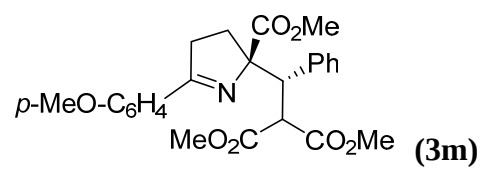


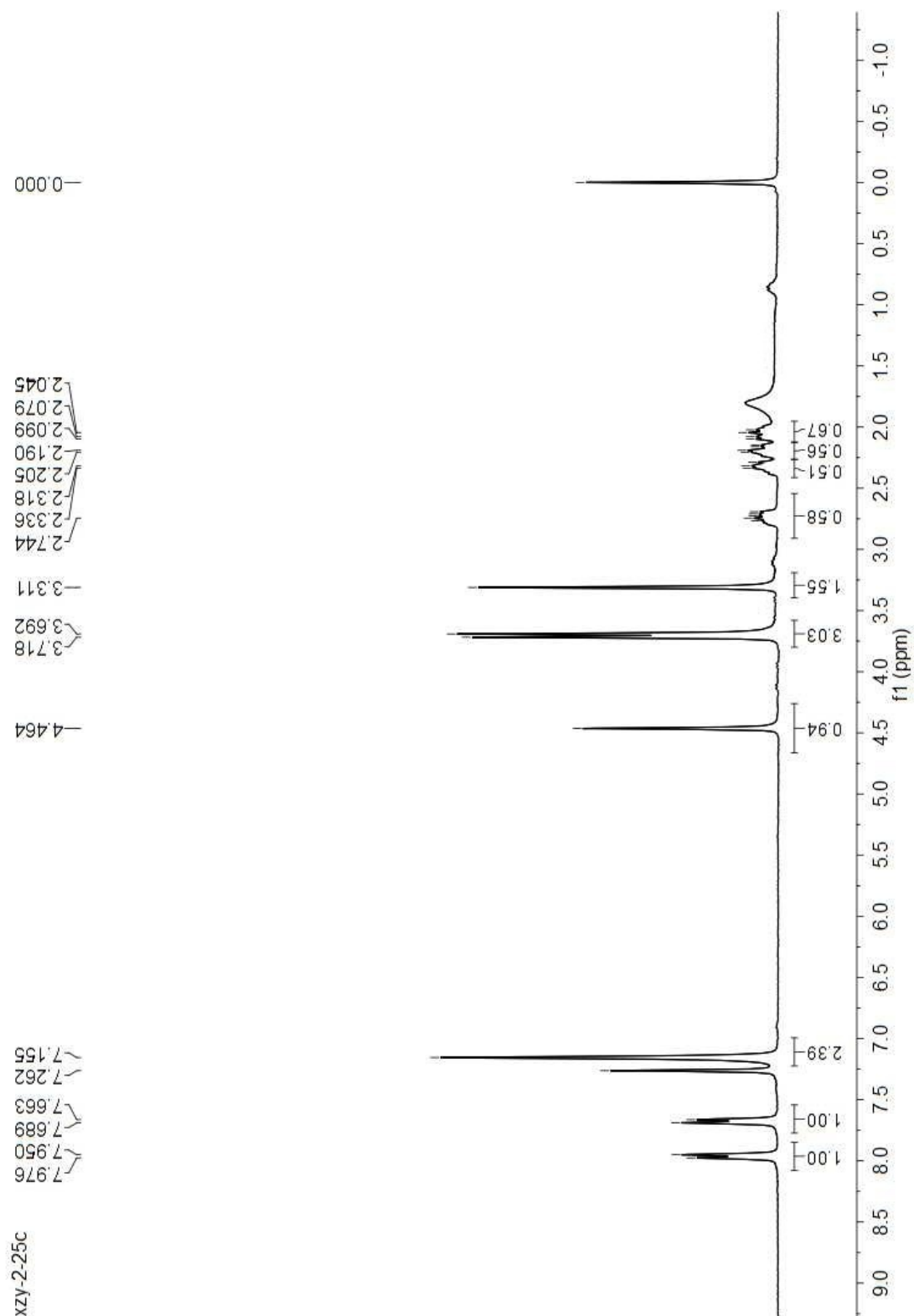
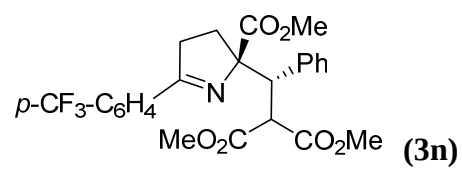


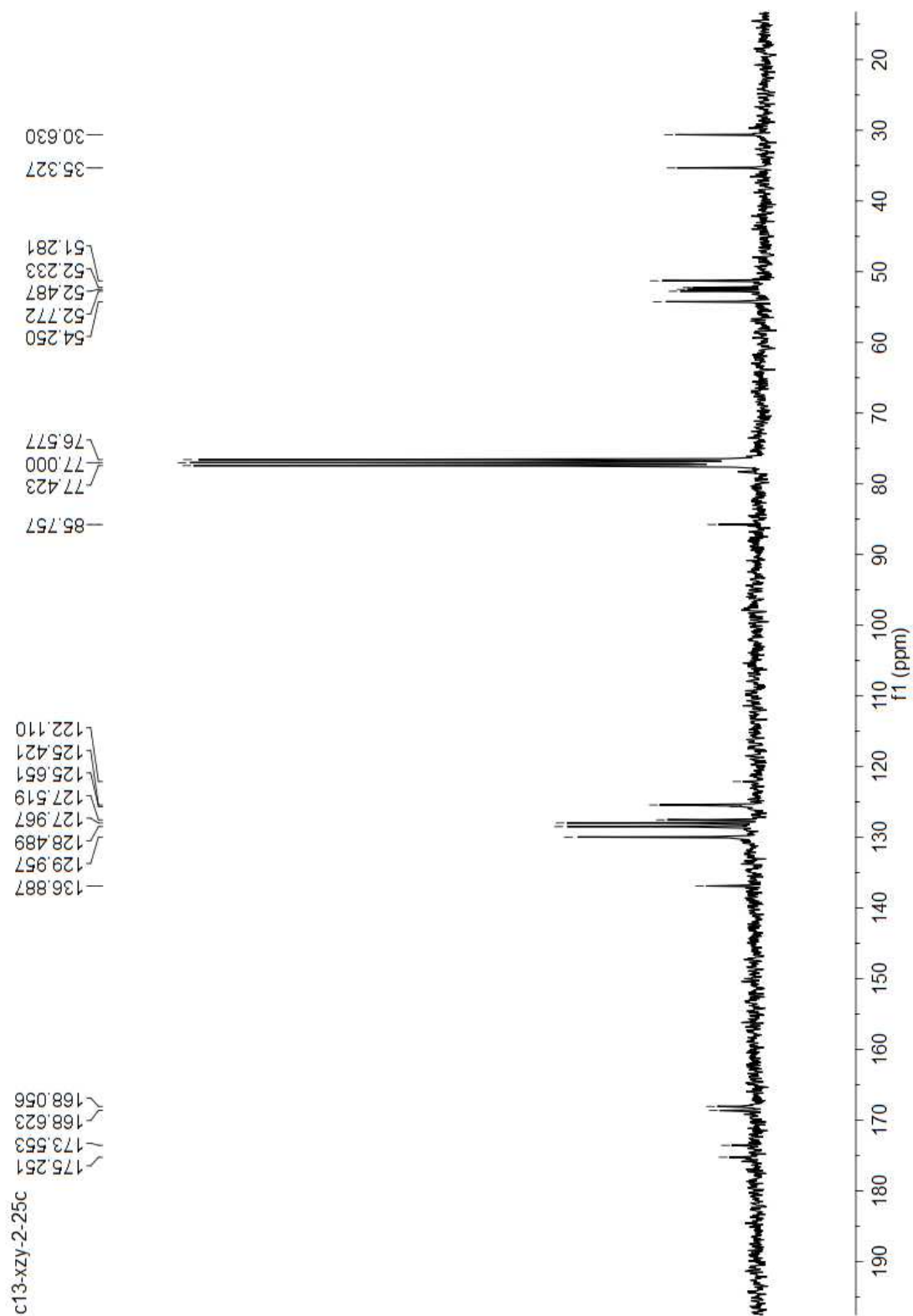
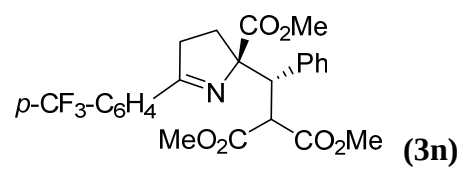


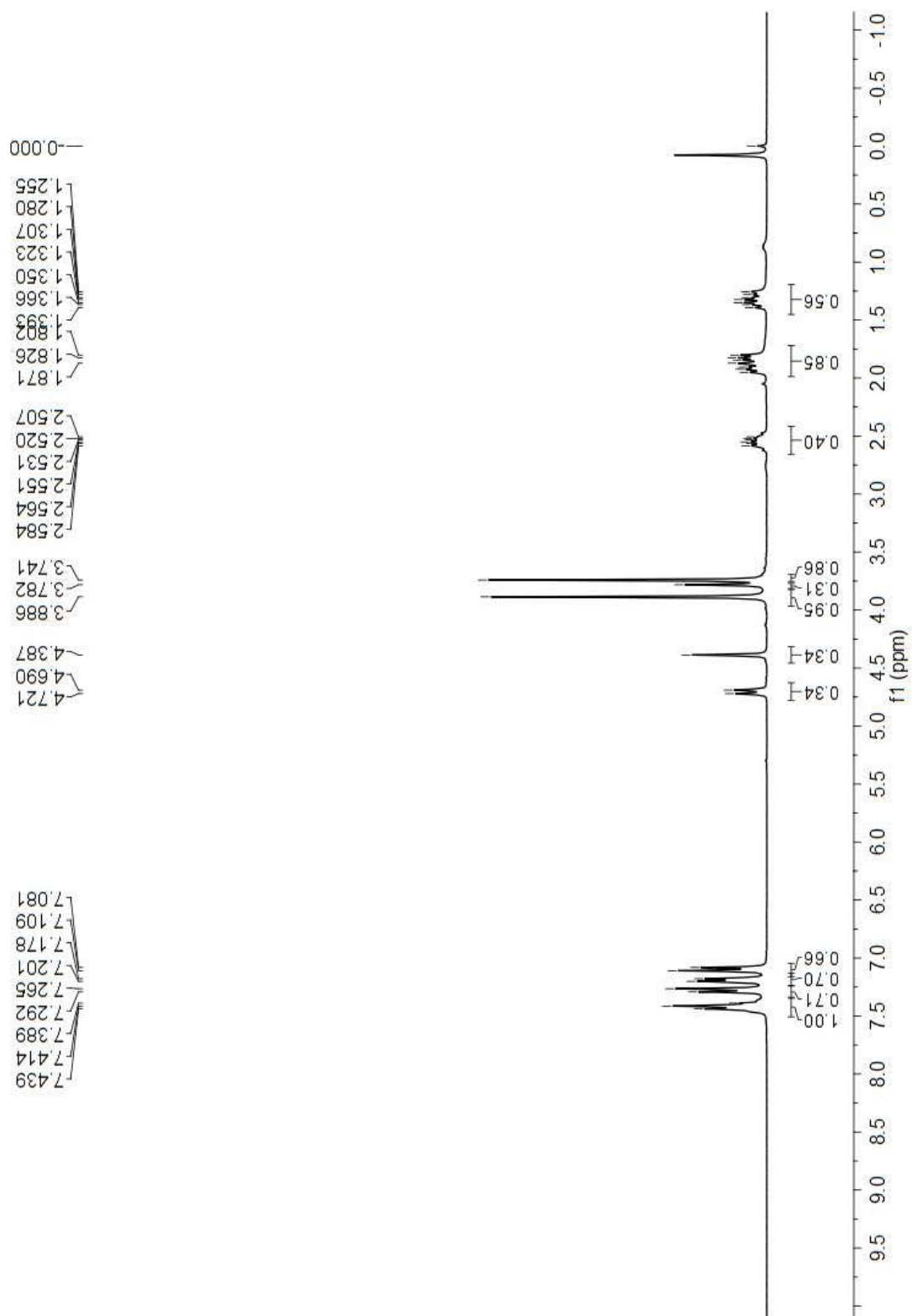
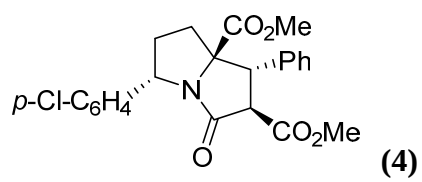


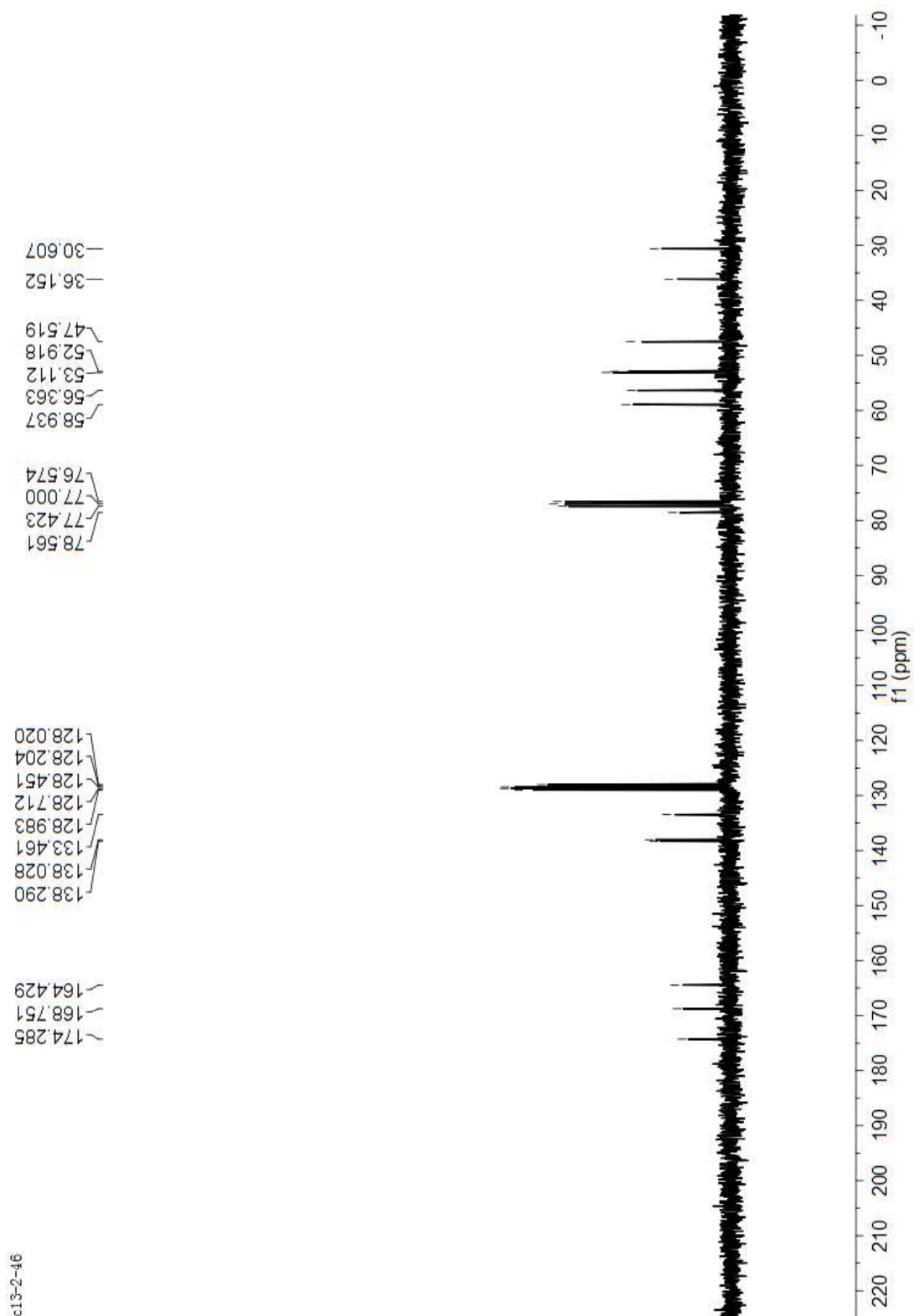
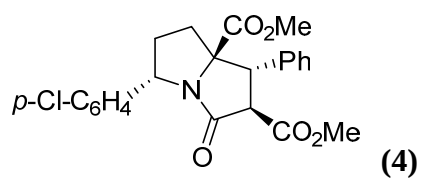




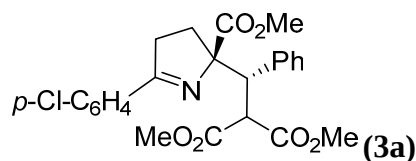








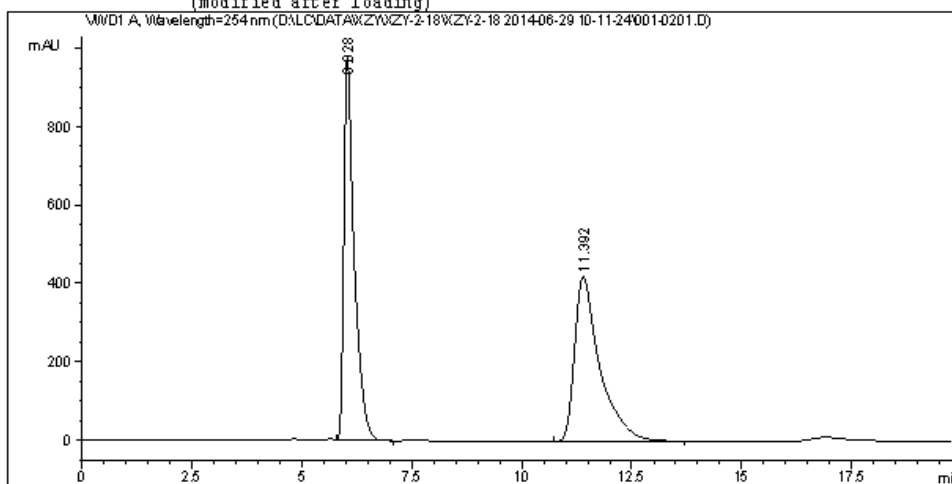
IV. HPLC spectra



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                                           Inj Volume: 5 µl

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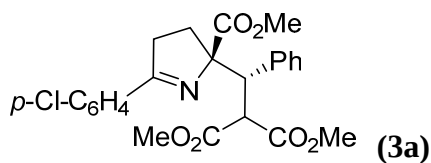
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Dilution       : 1.0000
Use Multiplier & Dilution Factor with ISTDs
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Signal 1: VMD1 A, Wavelength=254 nm

Peak #	RetTime [min]	Type	Width [min]	Area mAU *s	Height [mAU]	Area %
1	6.028	VB	0.2346	1.60862e4	983.12646	49.0844
2	11.392	BB	0.5736	1.66863e4	420.54831	50.9156

Totals : 3.27724e4 1403.67477

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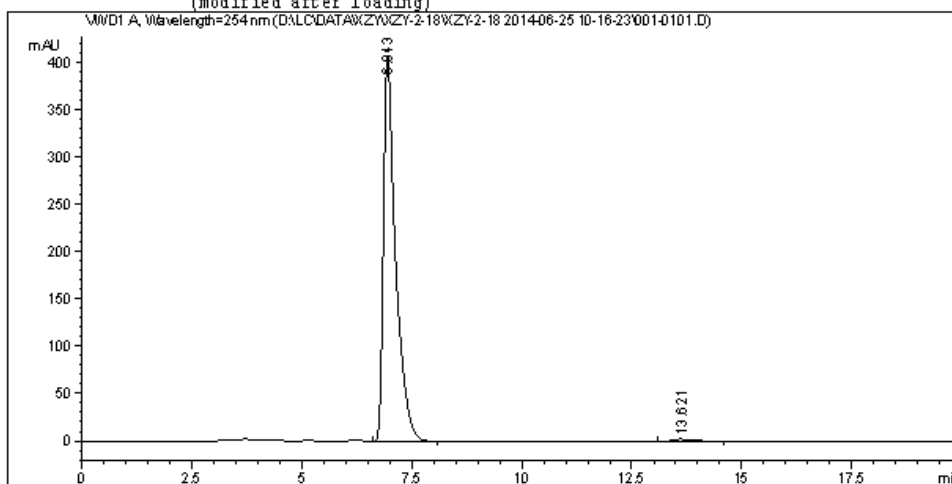


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 Sample Name: xyz-2-18a

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Injection Date  : 6/25/2014 10:18:03 AM    Inj       :    1
                                           Inj Volume: 5 µl

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Area Percent Report

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Dilution       :      1.0000
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Signal 1: WWD1 A, Wavelength=254 nm

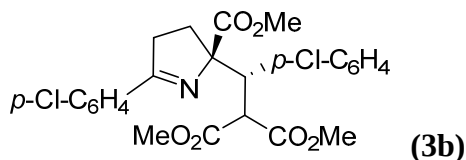
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1	6.943	VB	0.2748	7814.75439	407.31845	98.8520	
2	13.621	BB	0.4934	90.75404	2.43329	1.1480	

Totals : 7905.50844 409.75174

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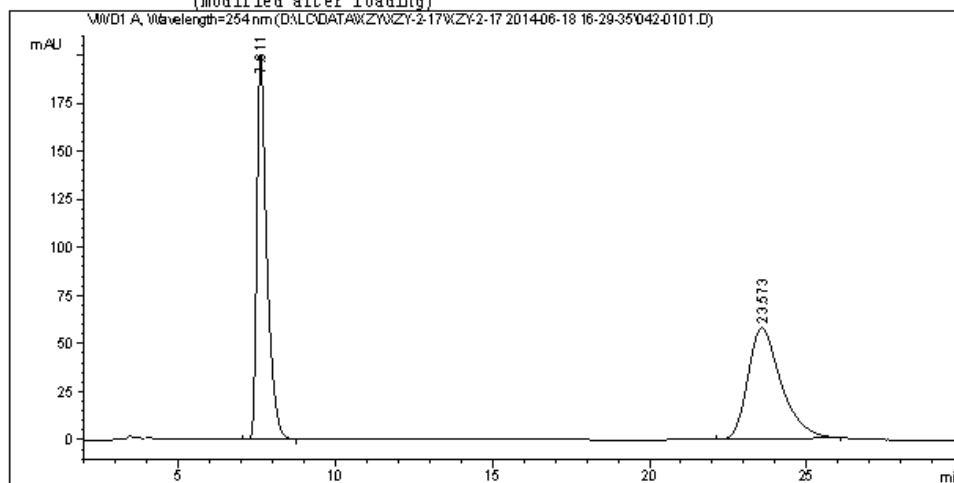
Instrument 1 7/28/2014 11:20:50 AM LJ

Page 1 of 1



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Acq. Instrument : Instrument 1             Location  : Vial 42
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                                           Inj Volume: 5 µl
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                          Area Percent Report
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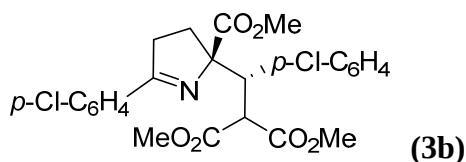
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Dilution       :      1.0000
Use Multiplier & Dilution Factor with ISTDs
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Signal 1: VMD1 A, Wavelength=254 nm

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1	7.611	BB	0.3208	4401.65527	200.04160	50.8116
2	23.573	VB	1.0995	4261.04395	57.85205	49.1884

Totals : 8662.69922 257.89365

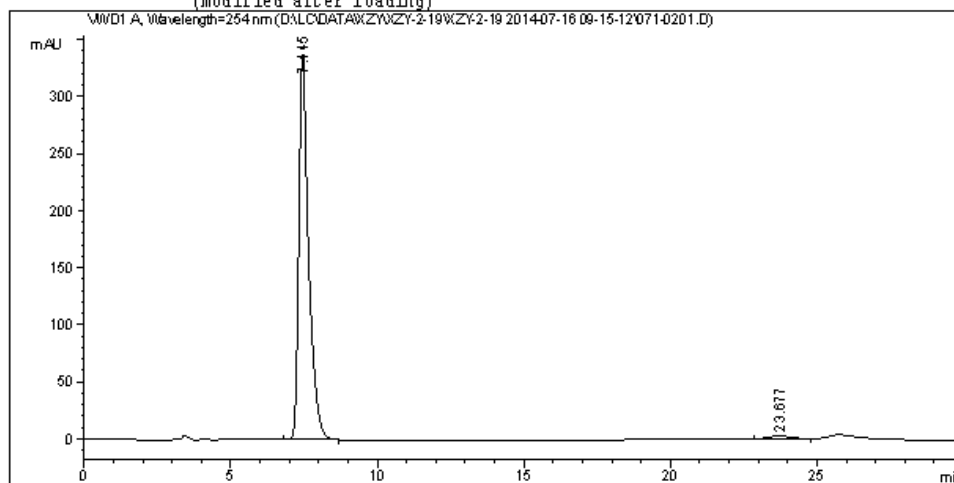
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                                           Inj Volume: 5 µl
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 Area Percent Report
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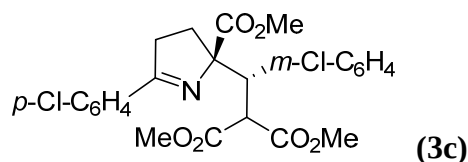
Sorted By : Signal
 Multiplier : 1.0000
 Dilution : 1.0000
 Use Multiplier & Dilution Factor with ISTDs

Signal 1: WVD1 A, Wavelength=254 nm

Peak #	RetTime [min]	Type	Width [min]	Area mAU *s	Height [mAU]	Area %
1	7.445	BB	0.3371	7854.94971	337.47281	97.9500
2	23.677	BV	0.7109	164.39471	2.80705	2.0500

Totals : 8019.34442 340.27986

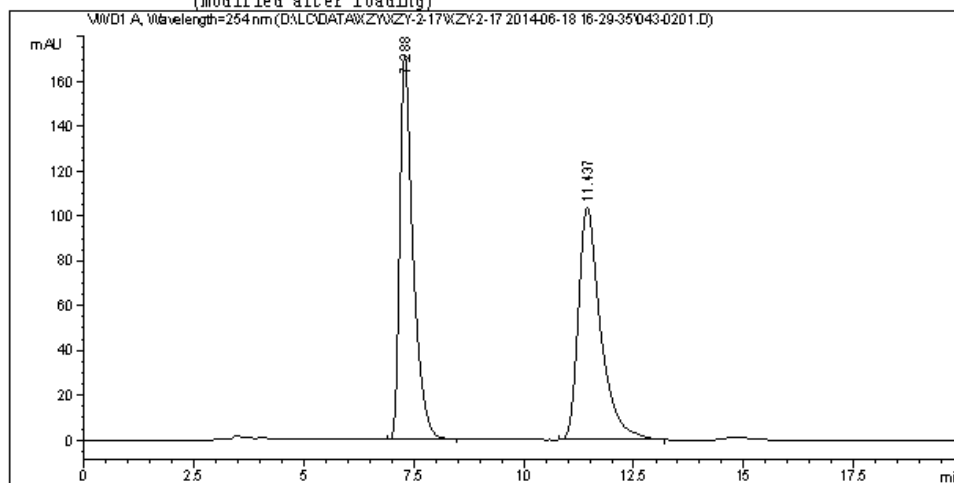
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 *** End of Report ***



Data File D:\LC\DATA\XYZ\XYZ-2-17\XYZ-2-17 2014-06-18 16-29-35\043-0201.D
Sample Name: XYZ-2-17B

```
=====
Acq. Operator   : WL                      Seq. Line :    2
Acq. Instrument : Instrument 1             Location  : Vial 43
Injection Date  : 6/18/2014 5:03:13 PM     Inj       :    1
                                           Inj Volume: 5 µl

Acq. Method     : D:\LC\DATA\XYZ\XYZ-2-17\XYZ-2-17 2014-06-18 16-29-35\ADH-30-70-1ML-254NM.M
Last changed    : 6/18/2014 5:01:10 PM by WL
                  (modified after loading)
Analysis Method : D:\LC\DATA\XYZ\XYZ-2-17\XYZ-2-17 2014-06-18 16-29-35\043-0201.D\DA.M (ADH-
30-70-1ML-254NM.M)
Last changed    : 7/28/2014 11:00:13 AM by LJ
                  (modified after loading)
=====
```



```
=====
                          Area Percent Report
=====
```

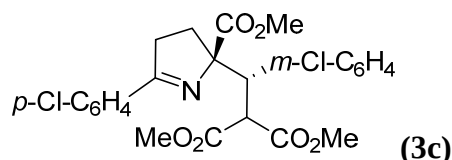
```
Sorted By      :      Signal
Multiplier     :      1.0000
Dilution       :      1.0000
Use Multiplier & Dilution Factor with ISTDs
```

Signal 1: VMD1 A, Wavelength=254 nm

Peak #	RetTime [min]	Type	Width [min]	Area mAU *s	Height [mAU]	Area %
1	7.288	BB	0.3079	3607.99390	171.60686	49.7540
2	11.437	BB	0.5210	3643.66699	103.60118	50.2460

Totals : 7251.66089 275.20804

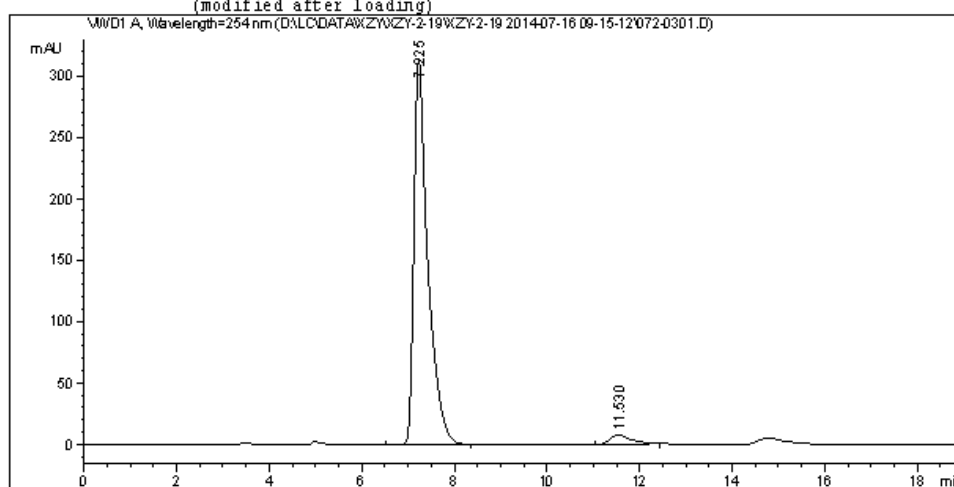
```
=====
*** End of Report ***
```



Data File D:\LC\DATA\XYZ\XYZ-2-19\XYZ-2-19 2014-07-16 09-15-12\072-0301.D
 Sample Name: XYZ-2-19B

```

=====
Acq. Operator   : LJ                      Seq. Line :    3
Acq. Instrument : Instrument 1             Location  : Vial 72
Injection Date  : 7/16/2014 9:59:19 AM    Inj       :    1
                                           Inj Volume: 5 µl
Acq. Method     : D:\LC\DATA\XYZ\XYZ-2-19\XYZ-2-19 2014-07-16 09-15-12\ADH-30-70-1ML-254NM-
30MIN.M
Last changed    : 7/16/2014 10:17:38 AM by LJ
                  (modified after loading)
Analysis Method : D:\LC\DATA\XYZ\XYZ-2-19\XYZ-2-19 2014-07-16 09-15-12\072-0301.D\DA.M (ADH-
30-70-1ML-254NM-30MIN.M)
Last changed    : 7/28/2014 11:23:44 AM by LJ
                  (modified after loading)
=====
  
```



Area Percent Report

```

Sorted By      :      Signal
Multiplier     :      1.0000
Dilution       :      1.0000
Use Multiplier & Dilution Factor with ISTDs
  
```

Signal 1: VWD1 A, Wavelength=254 nm

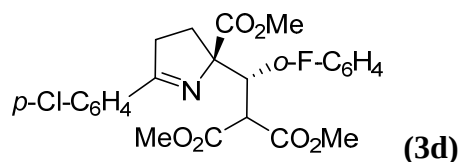
Peak #	RetTime [min]	Type	Width [min]	Area mAU	Height [mAU]	Area %
1	7.225	BB	0.2997	6531.12109	313.69641	96.5572
2	11.530	BB	0.4482	232.86761	7.46831	3.4428

Totals : 6763.98871 321.16472

*** End of Report ***

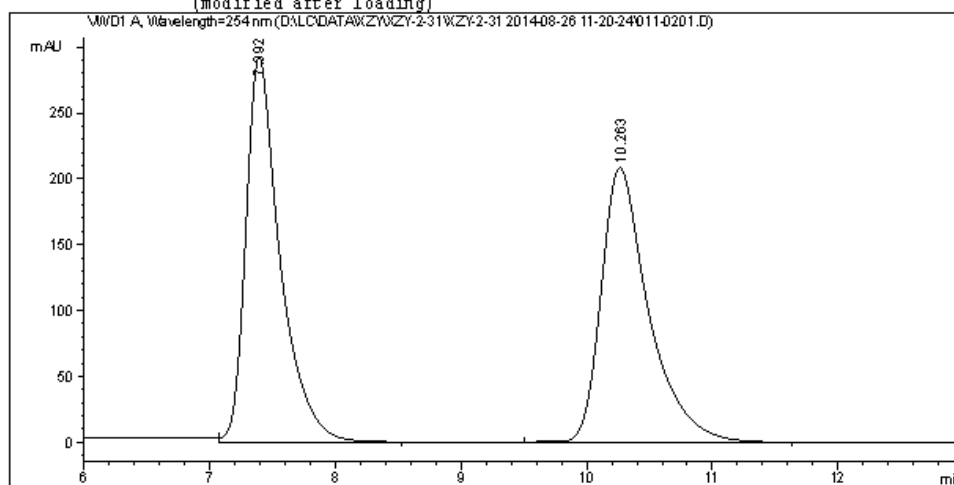
Instrument 1 7/28/2014 11:23:50 AM LJ

Page 1 of 1



Data File D:\LC\DATA\XYZ\XYZ-2-31\XYZ-2-31 2014-08-26 11-20-24\011-0201.D
 Sample Name: XYZ-2-31A

```
=====
Acq. Operator   :                               Seq. Line :    2
Acq. Instrument : Instrument 1                   Location  : Vial 11
Injection Date  : 8/26/2014 11:33:10 AM          Inj       :    1
                                           Inj Volume: 5 µl
Acq. Method     : D:\LC\DATA\XYZ\XYZ-2-31\XYZ-2-31 2014-08-26 11-20-24\ADH-30-70-1ML-254NM-
30MIN.M
Last changed    : 7/31/2014 2:57:48 PM by HR
Analysis Method : D:\LC\DATA\XYZ\XYZ-2-31\XYZ-2-31 2014-08-26 11-20-24\011-0201.D\DA.M (ADH-
30-70-1ML-254NM-30MIN.M)
Last changed    : 8/29/2014 3:32:22 PM by LJ
(modified after loading)
=====
```



```
=====
                          Area Percent Report
=====
```

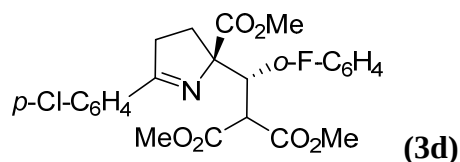
```
Sorted By      :      Signal
Multiplier     :      1.0000
Dilution       :      1.0000
Use Multiplier & Dilution Factor with ISTDs
```

Signal 1: VMD1 A, Wavelength=254 nm

Peak #	RetTime [min]	Type	Width [min]	Area mAU	Height [mAU]	Area %
1	7.392	VB	0.2778	5538.18799	292.34671	50.3175
2	10.263	BB	0.3875	5468.30762	208.54195	49.6825

Totals : 1.10065e4 500.88866

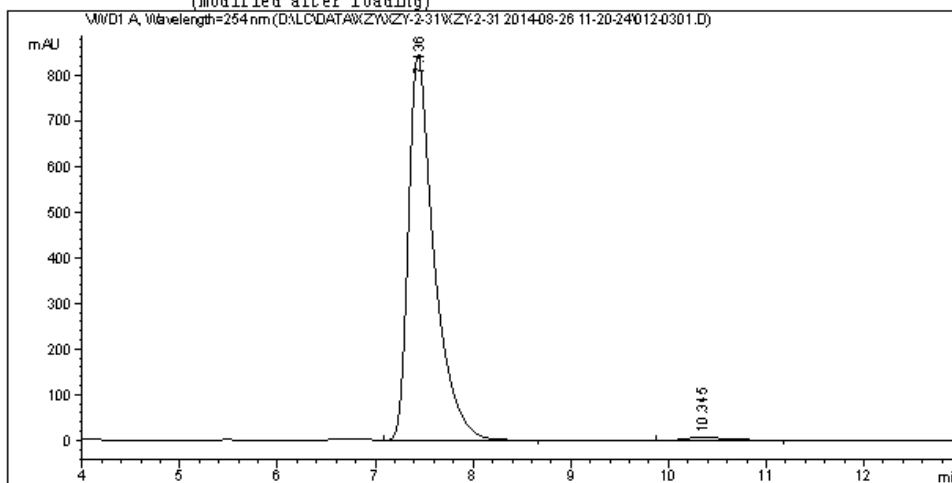
```
=====
*** End of Report ***
```



Data File D:\LC\DATA\XYZ\XYZ-2-31\XYZ-2-31 2014-08-26 11-20-24\012-0301.D
Sample Name: XYZ-2-31C

```

=====
Acq. Operator   :                               Seq. Line :    3
Acq. Instrument : Instrument 1                  Location  : Vial 12
Injection Date  : 8/26/2014 12:04:23 PM         Inj       :    1
                                           Inj Volume:    5 µl
Acq. Method     : D:\LC\DATA\XYZ\XYZ-2-31\XYZ-2-31 2014-08-26 11-20-24\ADH-30-70-1ML-254NM-
30MIN.M
Last changed    : 7/31/2014 2:57:48 PM by HR
Analysis Method : D:\LC\DATA\XYZ\XYZ-2-31\XYZ-2-31 2014-08-26 11-20-24\012-0301.D\DA.M (ADH-
30-70-1ML-254NM-30MIN.M)
Last changed    : 8/29/2014 3:34:06 PM by LJ
(modified after loading)
  
```



=====
Area Percent Report
=====

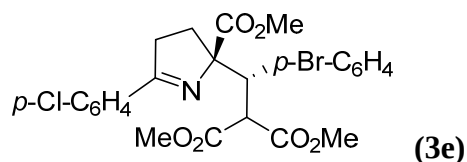
Sorted By : Signal
Multiplier : 1.0000
Dilution : 1.0000
Use Multiplier & Dilution Factor with ISTDs

Signal 1: VMD1 A, Wavelength=254 nm

Peak #	RetTime [min]	Type	Width [min]	Area mAU *s	Height [mAU]	Area %
1	7.436	VB	0.2669	1.54134e4	843.97601	98.8987
2	10.345	BB	0.3648	171.63647	6.82348	1.1013

Totals : 1.55850e4 850.79949

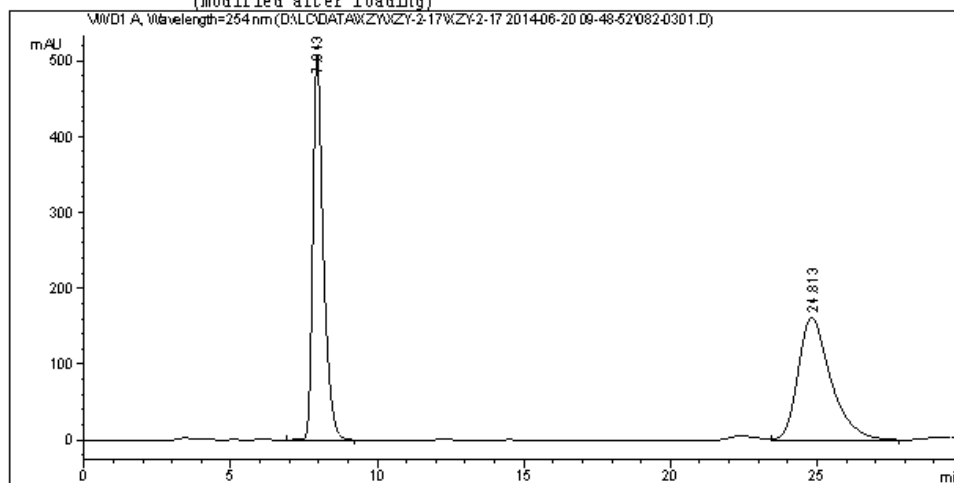
=====
*** End of Report ***



Data File D:\LC\DATA\XYZ\XYZ-2-17\XYZ-2-17 2014-06-20 09-48-52\082-0301.D
 Sample Name: XYZ-2-17D

```
=====
Acq. Operator   : WL                      Seq. Line :    3
Acq. Instrument : Instrument 1             Location  : Vial 82
Injection Date  : 6/20/2014 10:32:50 AM    Inj       :    1
                                           Inj Volume: 5 µl

Acq. Method     : D:\LC\DATA\XYZ\XYZ-2-17\XYZ-2-17 2014-06-20 09-48-52\ADH-30-70-1ML-254NM.M
Last changed    : 6/20/2014 10:31:38 AM by WL
                  (modified after loading)
Analysis Method : D:\LC\DATA\XYZ\XYZ-2-17\XYZ-2-17 2014-06-20 09-48-52\082-0301.D\DA.M (ADH-
                  30-70-1ML-254NM.M)
Last changed    : 7/28/2014 11:03:31 AM by LJ
                  (modified after loading)
=====
```



Area Percent Report

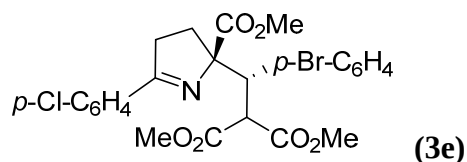
```
Sorted By      : Signal
Multiplier     : 1.0000
Dilution       : 1.0000
Use Multiplier & Dilution Factor with ISTDs
```

Signal 1: WVD1 A, Wavelength=254 nm

Peak #	RetTime [min]	Type	Width [min]	Area mAU	Height [mAU]	Area %
1	7.943	BB	0.3645	1.26317e4	507.77432	50.1739
2	24.813	VB	1.1670	1.25442e4	161.99132	49.8261

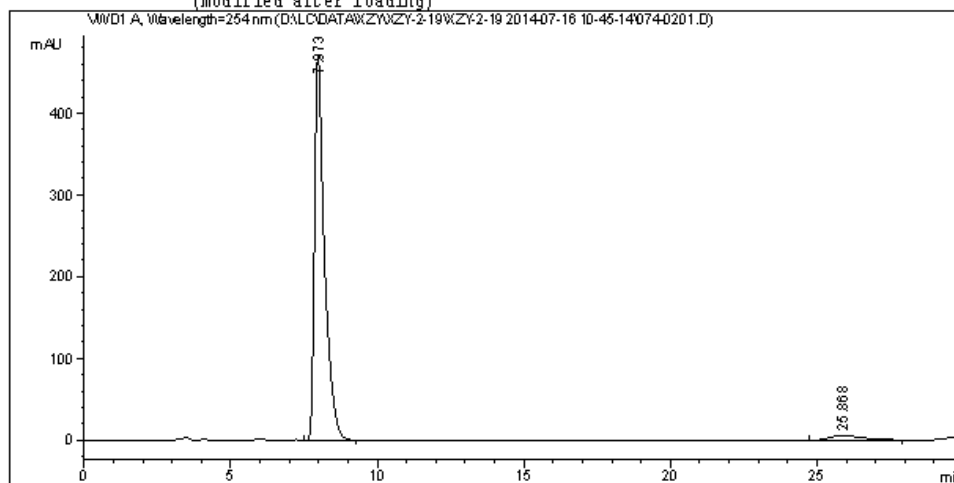
Totals : 2.51759e4 669.76564

*** End of Report ***



Data File D:\LC\DATA\XYZ\XYZ-2-19\XYZ-2-19 2014-07-16 10-45-14\074-0201.D
Sample Name: XYZ-2-19D

```
=====
Acq. Operator   : LJ                      Seq. Line :    2
Acq. Instrument : Instrument 1             Location  : Vial 74
Injection Date  : 7/16/2014 10:57:57 AM    Inj       :    1
                                           Inj Volume: 5 µl
Acq. Method     : D:\LC\DATA\XYZ\XYZ-2-19\XYZ-2-19 2014-07-16 10-45-14\ADH-30-70-1ML-254NM-
30MIN.M
Last changed    : 11/9/2011 1:34:30 PM by THL
Analysis Method : D:\LC\DATA\XYZ\XYZ-2-19\XYZ-2-19 2014-07-16 10-45-14\074-0201.D\DA.M (ADH-
30-70-1ML-254NM-30MIN.M)
Last changed    : 7/28/2014 11:25:47 AM by LJ
(modified after loading)
=====
```



```
=====
                          Area Percent Report
=====
```

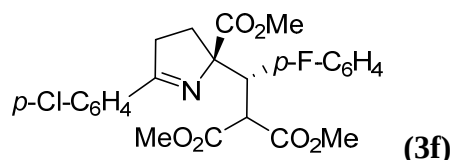
```
Sorted By      :      Signal
Multiplier     :      1.0000
Dilution       :      1.0000
Use Multiplier & Dilution Factor with ISTDs
```

Signal 1: VMD1 A, Wavelength=254 nm

Peak #	RetTime [min]	Type	Width [min]	Area mAU *s	Height [mAU]	Area %
1	7.973	VB	0.3399	1.10808e4	471.19257	96.0293
2	25.868	BB	0.9046	458.18158	6.00596	3.9707

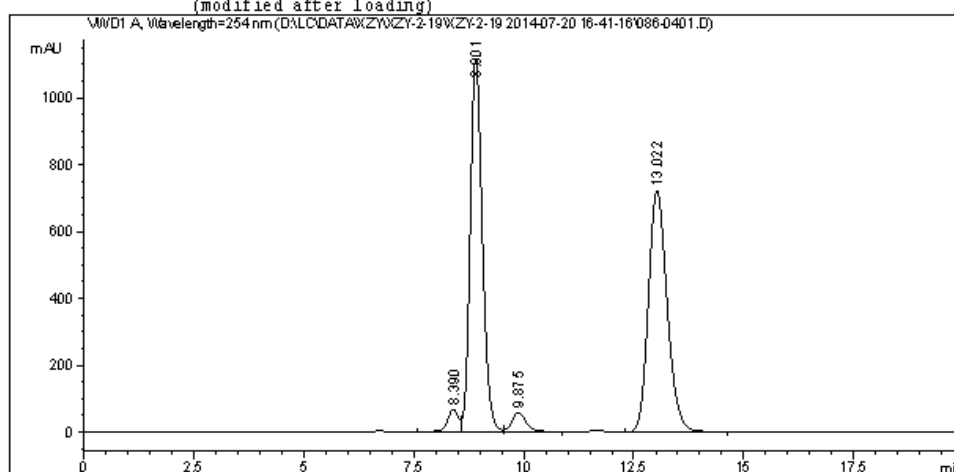
Totals : 1.15390e4 477.19852

```
=====
*** End of Report ***
=====
```



Data File D:\LC\DATA\XYZ\XYZ-2-19\XYZ-2-19 2014-07-20 16-41-16\086-0401.D
 Sample Name: XYZ-2-17E

```
=====
Acq. Operator   : WL                               Seq. Line :    4
Acq. Instrument : Instrument 1                     Location  : Vial 86
Injection Date  : 7/20/2014 5:29:57 PM             Inj       :    1
                                                    Inj Volume: 5 µl
Acq. Method     : D:\LC\DATA\XYZ\XYZ-2-19\XYZ-2-19 2014-07-20 16-41-16\IC-30-70-1ML-254NM-
40MIN.M
Last changed    : 7/20/2014 5:29:55 PM by WL
                  (modified after loading)
Analysis Method : D:\LC\DATA\XYZ\XYZ-2-19\XYZ-2-19 2014-07-20 16-41-16\086-0401.D\DA.M (IC-
30-70-1ML-254NM-40MIN.M)
Last changed    : 7/31/2014 3:22:43 PM by WL
                  (modified after loading)
=====
```



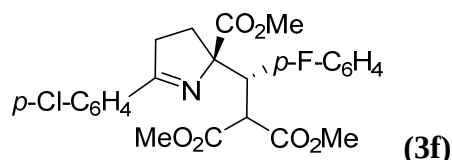
Area Percent Report

```
Sorted By      : Signal
Multiplier     : 1.0000
Dilution       : 1.0000
Use Multiplier & Dilution Factor with ISTDs
```

Signal 1: VWD1 A, Wavelength=254 nm

Peak #	RetTime [min]	Type	Width [min]	Area mAU *s	Height [mAU]	Area %
1	8.390	W	0.2625	1152.69690	67.28284	2.5447
2	8.901	W	0.2957	2.14754e4	1116.78821	47.4096
3	9.875	VB	0.3436	1313.67566	58.16899	2.9001
4	13.022	VB	0.4574	2.13558e4	721.67242	47.1455

Totals : 4.52976e4 1963.91246

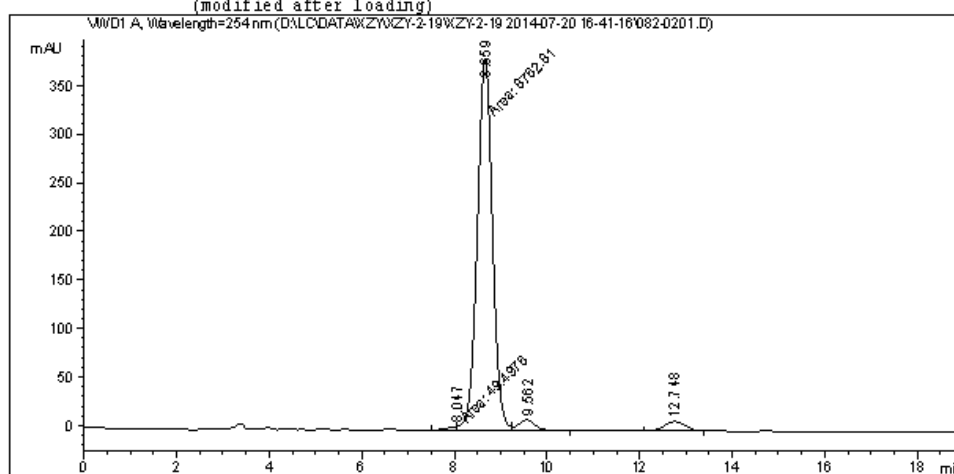


Data File D:\LC\DATA\XYZ\XYZ-2-19\XYZ-2-19 2014-07-20 16-41-16\082-0201.D
Sample Name: XYZ-2-19E

```

=====
Acq. Operator   : WL                      Seq. Line :    2
Acq. Instrument : Instrument 1             Location  : Vial 82
Injection Date  : 7/20/2014 4:48:39 PM     Inj       :    1
                                           Inj Volume: 5 µl
Acq. Method     : D:\LC\DATA\XYZ\XYZ-2-19\XYZ-2-19 2014-07-20 16-41-16\IC-30-70-1ML-254NM-
40MIN.M
Last changed    : 7/20/2014 5:07:22 PM by WL
                  (modified after loading)
Analysis Method : D:\LC\DATA\XYZ\XYZ-2-19\XYZ-2-19 2014-07-20 16-41-16\082-0201.D\DA.M (IC-
30-70-1ML-254NM-40MIN.M)
Last changed    : 7/31/2014 3:24:44 PM by WL
                  (modified after loading)
=====

```



Area Percent Report

```

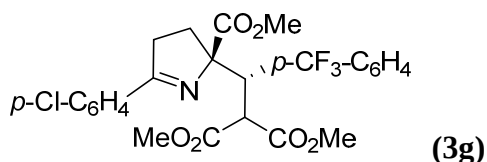
Sorted By       :      Signal
Multiplier      :      1.0000
Dilution        :      1.0000
Use Multiplier & Dilution Factor with ISTDs

```

Signal 1: VMD1 A, Wavelength=254 nm

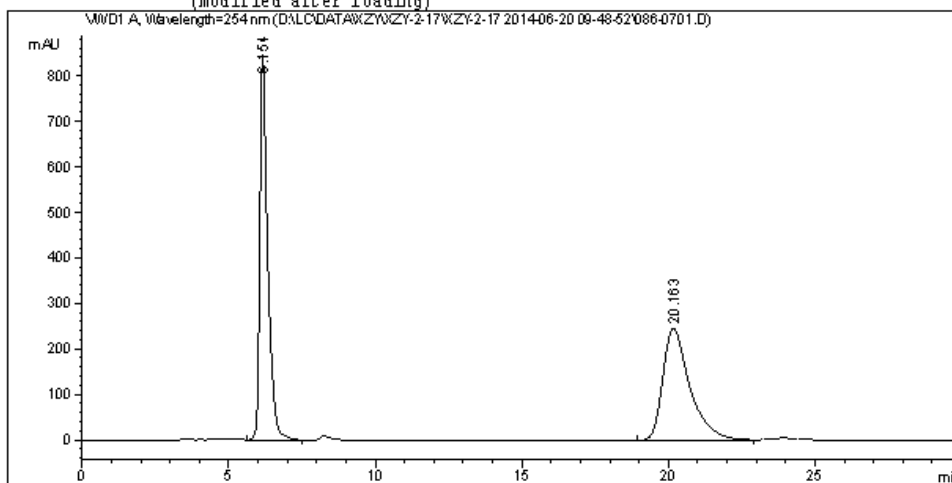
Peak #	RetTime [min]	Type	Width [min]	Area mAU *s	Height [mAU]	Area %
1	8.047	MF	0.2139	49.49762	3.85743	0.5253
2	8.659	FM	0.3816	8762.81055	382.75647	93.0025
3	9.562	VB	0.3984	292.18002	11.22290	3.1010
4	12.748	BV	0.4891	317.63690	9.79261	3.3712

Totals : 9422.12510 407.62942



Data File D:\LC\DATA\XYZ\XYZ-2-17\XYZ-2-17 2014-06-20 09-48-52\086-0701.D
Sample Name: XYZ-2-17H

```
=====
Acq. Operator   : WL                      Seq. Line :    7
Acq. Instrument : Instrument 1             Location  : Vial 86
Injection Date  : 6/20/2014 12:39:15 PM    Inj       :    1
                                           Inj Volume: 5 µl
Acq. Method     : D:\LC\DATA\XYZ\XYZ-2-17\XYZ-2-17 2014-06-20 09-48-52\ADH-30-70-1ML-254NM.M
Last changed    : 6/20/2014 12:37:38 PM by WL
                  (modified after loading)
Analysis Method : D:\LC\DATA\XYZ\XYZ-2-17\XYZ-2-17 2014-06-20 09-48-52\086-0701.D\DA.M (ADH-
                  30-70-1ML-254NM.M)
Last changed    : 7/28/2014 11:11:46 AM by LJ
                  (modified after loading)
=====
```



```
=====
                          Area Percent Report
=====
```

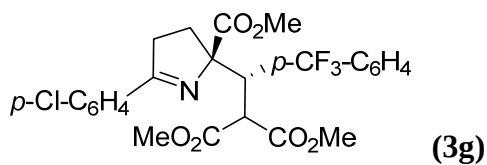
```
Sorted By      :      Signal
Multiplier     :      1.0000
Dilution       :      1.0000
Use Multiplier & Dilution Factor with ISTDs
```

Signal 1: VMD1 A, Wavelength=254 nm

Peak #	RetTime [min]	Type	Width [min]	Area mAU *s	Height [mAU]	Area %
1	6.154	VB	0.2677	1.56988e4	844.99567	50.0009
2	20.163	BB	0.9530	1.56982e4	245.42094	49.9991

Totals : 3.13969e4 1090.41661

```
=====
*** End of Report ***
=====
```

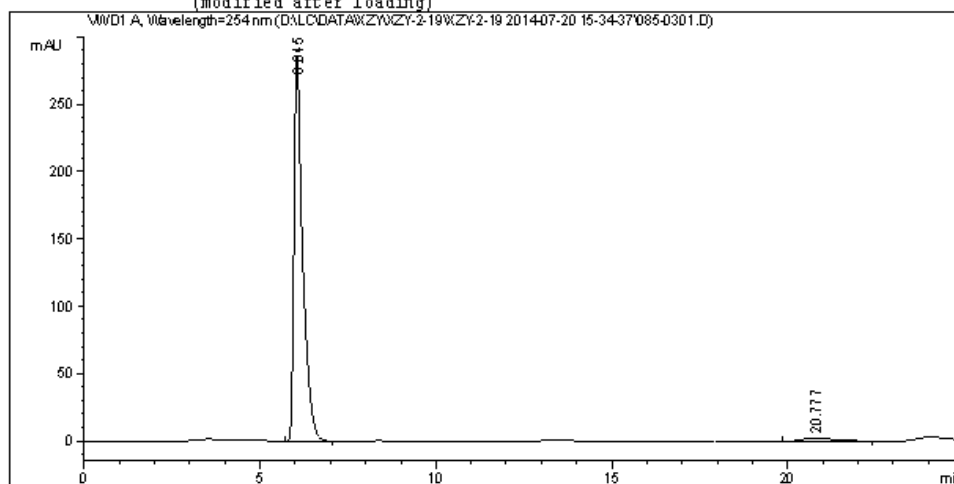


Data File D:\LC\DATA\XYZ\XYZ-2-19\XYZ-2-19 2014-07-20 15-34-37\085-0301.D
 Sample Name: XYZ-2-19H

```

=====
Acq. Operator   : WL                      Seq. Line :    3
Acq. Instrument : Instrument 1             Location  : Vial 85
Injection Date  : 7/20/2014 4:08:01 PM    Inj       :    1
                                           Inj Volume: 5 µl

Acq. Method     : D:\LC\DATA\XYZ\XYZ-2-19\XYZ-2-19 2014-07-20 15-34-37\ADH-30-70-1ML-254NM-
                                           30MIN.M
Last changed    : 7/20/2014 4:06:28 PM by WL
                  (modified after loading)
Analysis Method : D:\LC\DATA\XYZ\XYZ-2-19\XYZ-2-19 2014-07-20 15-34-37\085-0301.D\DA.M (ADH-
                                           30-70-1ML-254NM-30MIN.M)
Last changed    : 7/31/2014 3:31:18 PM by WL
                  (modified after loading)
  
```



Area Percent Report

```

Sorted By      :      Signal
Multiplier     :      1.0000
Dilution       :      1.0000
Use Multiplier & Dilution Factor with ISTDs
  
```

Signal 1: VWD1 A, Wavelength=254 nm

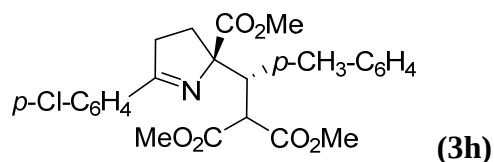
Peak #	RetTime [min]	Type	Width [min]	Area mAU	Area %	Height [mAU]
1	6.045	BB	0.2460	4923.69434	96.8262	285.97516
2	20.777	BB	0.7891	161.39116	3.1738	2.45887

Totals : 5085.08549 288.43402

*** End of Report ***

Instrument 1 7/31/2014 3:31:23 PM WL

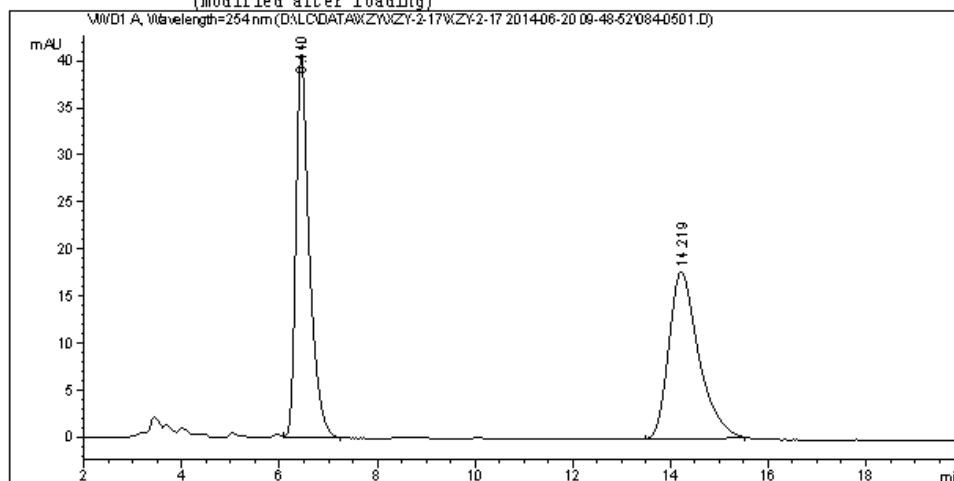
Page 1 of 1



Data File D:\LC\DATA\XYZ\XYZ-2-17\XYZ-2-17 2014-06-20 09-48-52\084-0501.D
Sample Name: XYZ-2-17F

```
=====
Acq. Operator   : WL                      Seq. Line :    5
Acq. Instrument : Instrument 1             Location  : Vial 84
Injection Date  : 6/20/2014 11:35:56 AM    Inj       :    1
                                           Inj Volume: 5 µl

Acq. Method     : D:\LC\DATA\XYZ\XYZ-2-17\XYZ-2-17 2014-06-20 09-48-52\ADH-30-70-1ML-254NM.M
Last changed    : 6/20/2014 11:34:37 AM by WL
                  (modified after loading)
Analysis Method : D:\LC\DATA\XYZ\XYZ-2-17\XYZ-2-17 2014-06-20 09-48-52\084-0501.D\DA.M (ADH-
                  30-70-1ML-254NM.M)
Last changed    : 7/28/2014 11:08:24 AM by LJ
                  (modified after loading)
=====
```



Area Percent Report

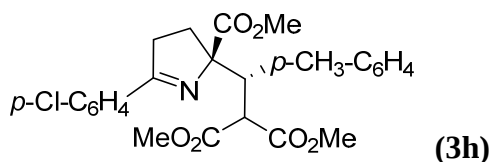
```
Sorted By      : Signal
Multiplier     : 1.0000
Dilution       : 1.0000
Use Multiplier & Dilution Factor with ISTDs
```

Signal 1: VMD1 A, Wavelength=254 nm

Peak #	RetTime [min]	Type	Width [min]	Area mAU*s	Height [mAU]	Area %
1	6.440	VB	0.2810	777.57080	40.71880	50.6673
2	14.219	BB	0.6100	757.08862	17.79333	49.3327

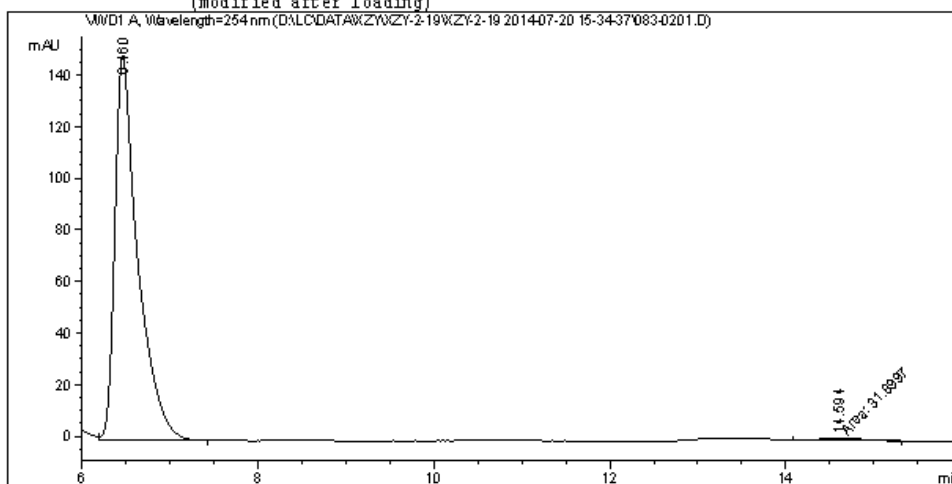
Totals : 1534.65942 58.51212

*** End of Report ***



Data File D:\LC\DATA\XYZ\XYZ-2-19\XYZ-2-19 2014-07-20 15-34-37\083-0201.D
Sample Name: XYZ-2-19F

```
=====
Acq. Operator   : WL                      Seq. Line :    2
Acq. Instrument : Instrument 1             Location  : Vial 83
Injection Date  : 7/20/2014 3:47:14 PM     Inj       :    1
                                           Inj Volume: 5 µl
Acq. Method     : D:\LC\DATA\XYZ\XYZ-2-19\XYZ-2-19 2014-07-20 15-34-37\ADH-30-70-1ML-254NM-
                                           30MIN.M
Last changed    : 7/20/2014 4:05:31 PM by WL
                  (modified after loading)
Analysis Method : D:\LC\DATA\XYZ\XYZ-2-19\XYZ-2-19 2014-07-20 15-34-37\083-0201.D\DA.M (ADH-
                                           30-70-1ML-254NM-30MIN.M)
Last changed    : 7/31/2014 3:27:17 PM by WL
                  (modified after loading)
=====
```



Area Percent Report

```
Sorted By      : Signal
Multiplier     : 1.0000
Dilution       : 1.0000
Use Multiplier & Dilution Factor with ISTDs
```

Signal 1: VWD1 A, Wavelength=254 nm

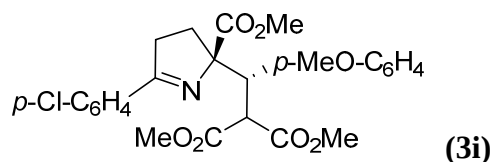
Peak #	RetTime [min]	Type	Width [min]	Area mAU	Area *s	Height [mAU]	Area %
1	6.460	VB	0.2595	2694.07593	148.67407	148.67407	98.8298
2	14.594	MM	0.5616	31.89966	9.46643e-1	1.1702	1.1702

Totals : 2725.97559 149.62072

*** End of Report ***

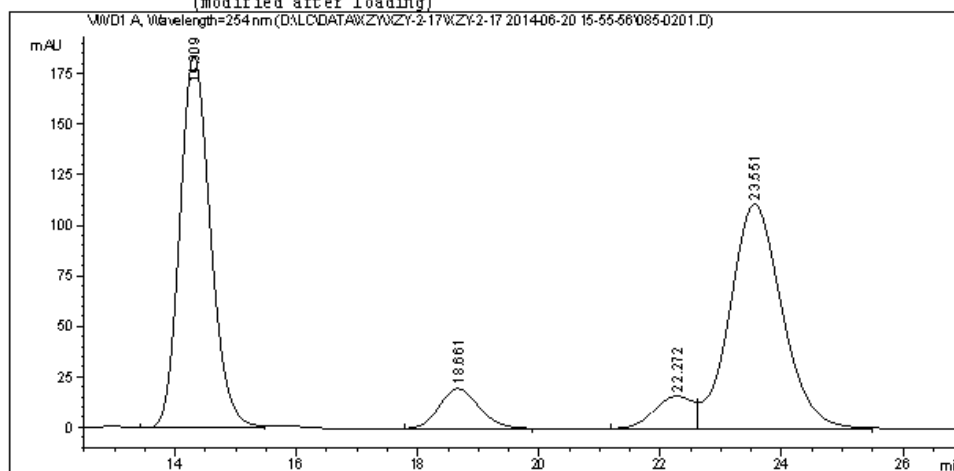
Instrument 1 7/31/2014 3:27:22 PM WL

Page 1 of 1



Data File D:\LC\DATA\XYZ\XYZ-2-17\XYZ-2-17 2014-06-20 15-55-56\085-0201.D
 Sample Name: XYZ-2-17G

```
=====
Acq. Operator   : WL                      Seq. Line :    2
Acq. Instrument : Instrument 1             Location  : Vial 85
Injection Date  : 6/20/2014 4:28:41 PM     Inj       :    1
                                           Inj Volume: 5 µl
Acq. Method     : D:\LC\DATA\XYZ\XYZ-2-17\XYZ-2-17 2014-06-20 15-55-56\IC-30-70-1ML-254NM-40MIN.M
Last changed    : 6/20/2014 4:31:42 PM by WL
                  (modified after loading)
Analysis Method : D:\LC\DATA\XYZ\XYZ-2-17\XYZ-2-17 2014-06-20 15-55-56\085-0201.D\DA.M (IC-30-70-1ML-254NM-40MIN.M)
Last changed    : 7/28/2014 11:10:32 AM by LJ
                  (modified after loading)
=====
```



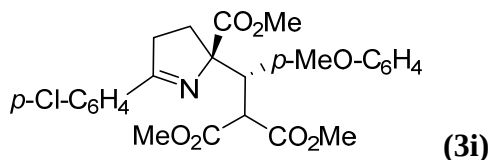
Area Percent Report

```
Sorted By      : Signal
Multiplier     : 1.0000
Dilution       : 1.0000
Use Multiplier & Dilution Factor with ISTDs
```

Signal 1: VMD1 A, Wavelength=254 nm

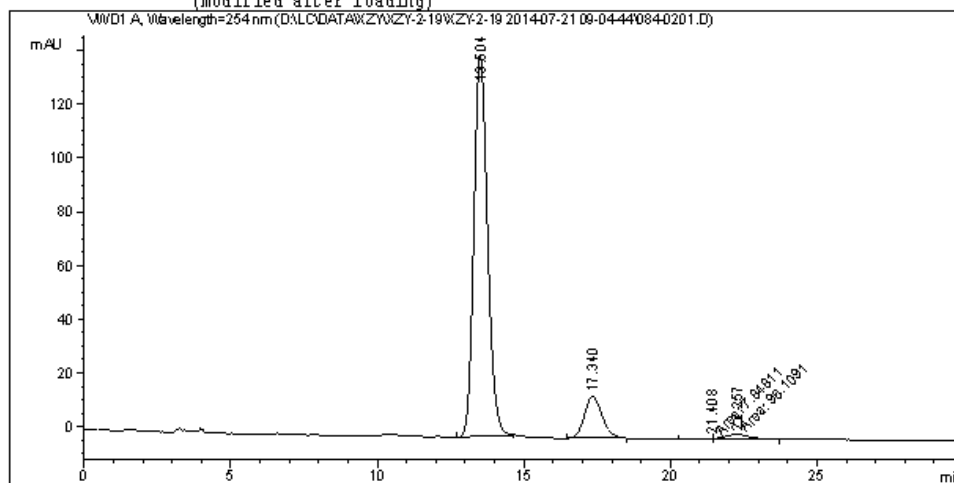
Peak #	RetTime [min]	Type	Width [min]	Area mAU *s	Height [mAU]	Area %
1	14.309	VB	0.5438	6479.69043	184.44057	44.0859
2	18.661	BB	0.6963	903.01978	19.75884	6.1439
3	22.272	BB	0.6770	719.73676	15.97812	4.8969
4	23.551	VB	0.9035	6595.44434	110.90054	44.8734

Totals : 1.46979e4 331.07806



Data File D:\LC\DATA\XYZ\XYZ-2-19\XYZ-2-19 2014-07-21 09-04-44\084-0201.D
Sample Name: xyz-2-19G

```
=====
Acq. Operator   : WL                      Seq. Line :    2
Acq. Instrument : Instrument 1             Location  : Vial 84
Injection Date  : 7/21/2014 9:12:30 AM     Inj       :    1
                                           Inj Volume: 5 µl
Acq. Method     : D:\LC\DATA\XYZ\XYZ-2-19\XYZ-2-19 2014-07-21 09-04-44\IC-30-70-1ML-254NM-40MIN.M
Last changed    : 7/20/2014 7:54:10 PM by WL
Analysis Method : D:\LC\DATA\XYZ\XYZ-2-19\XYZ-2-19 2014-07-21 09-04-44\084-0201.D\DA.M (IC-30-70-1ML-254NM-40MIN.M)
Last changed    : 7/31/2014 3:30:00 PM by WL
                  (modified after loading)
=====
```



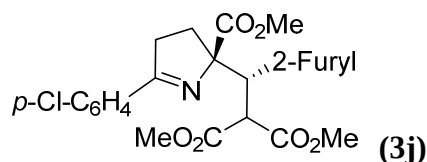
=====
Area Percent Report
=====

Sorted By : Signal
Multiplier : 1.0000
Dilution : 1.0000
Use Multiplier & Dilution Factor with ISTDs

Signal 1: VMD1 A, Wavelength=254 nm

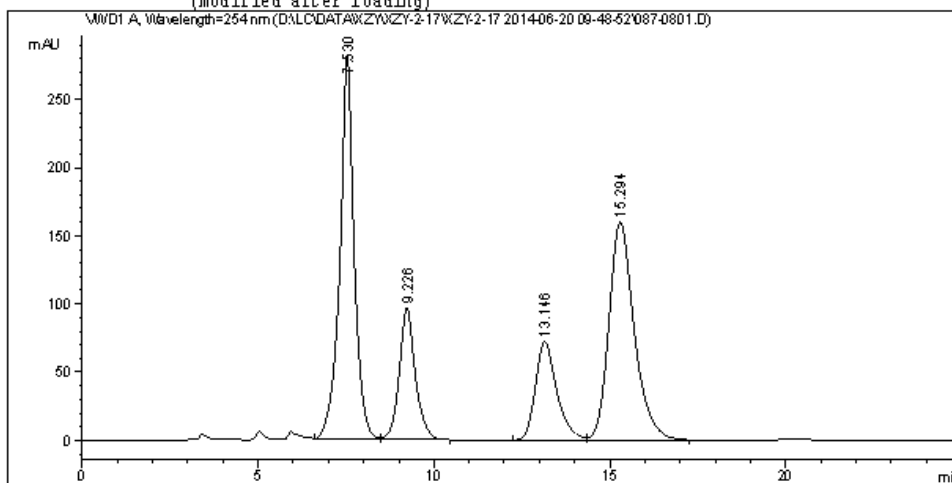
Peak #	RetTime [min]	Type	Width [min]	Area mAU*s	Height [mAU]	Area %
1	13.504	BB	0.5025	4594.07227	142.04793	85.7978
2	17.340	BB	0.6436	656.50513	15.56159	12.2607
3	21.408	MF	0.5879	7.84811	2.22493e-1	0.1466
4	22.257	FM	0.9439	96.10912	1.69698	1.7949

Totals : 5354.53462 159.52899



Data File D:\LC\DATA\XYZ\XYZ-2-17\XYZ-2-17 2014-06-20 09-48-52\087-0801.D
 Sample Name: XYZ-2-17I

```
=====
Acq. Operator   : WL                      Seq. Line :    8
Acq. Instrument : Instrument 1             Location  : Vial 87
Injection Date  : 6/20/2014 1:10:40 PM     Inj       :    1
                                           Inj Volume: 5 µl
Acq. Method     : D:\LC\DATA\XYZ\XYZ-2-17\XYZ-2-17 2014-06-20 09-48-52\ADH-30-70-1ML-254NM.M
Last changed    : 6/20/2014 1:09:10 PM by WL
                  (modified after loading)
Analysis Method : D:\LC\DATA\XYZ\XYZ-2-17\XYZ-2-17 2014-06-20 09-48-52\087-0801.D\DA.M (ADH-
                  30-70-1ML-254NM.M)
Last changed    : 7/28/2014 11:14:53 AM by LJ
                  (modified after loading)
=====
```



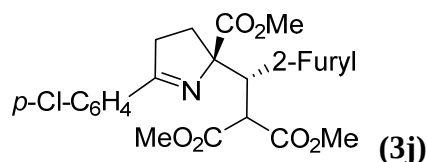
=====
 Area Percent Report
 =====

Sorted By : Signal
 Multiplier : 1.0000
 Dilution : 1.0000
 Use Multiplier & Dilution Factor with ISTDs

Signal 1: VMD1 A, Wavelength=254 nm

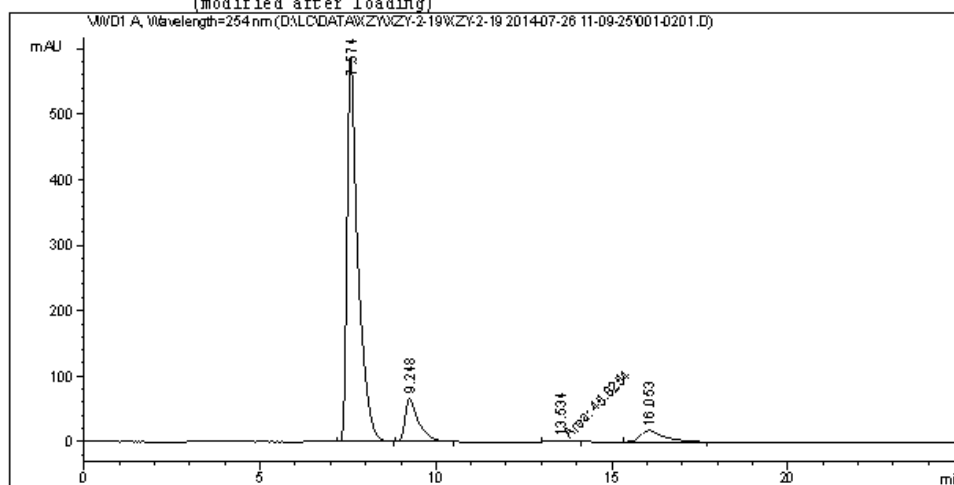
Peak #	RetTime [min]	Type	Width [min]	Area mAU	Area *s	Height [mAU]	Area %
1	7.530	VB	0.3988	8028.27002	282.26825	36.2361	
2	9.226	BB	0.4602	3086.27710	96.95759	13.9301	
3	13.146	BB	0.6344	3056.17798	72.08806	13.7943	
4	15.294	BB	0.7558	7984.71533	159.89949	36.0395	

Totals : 2.21554e4 611.21339



Data File D:\LC\DATA\XYZ\XYZ-2-19\XYZ-2-19 2014-07-26 11-09-25\001-0201.D
 Sample Name: xyz-2-19I

```
=====
Acq. Operator   : WL                               Seq. Line :    2
Acq. Instrument : Instrument 1                     Location  : Vial 1
Injection Date  : 7/26/2014 11:22:04 AM            Inj       :    1
                                                    Inj Volume: 5 µl
Acq. Method     : D:\LC\DATA\XYZ\XYZ-2-19\XYZ-2-19 2014-07-26 11-09-25\ADH-30-70-1ML-254NM-30MIN.M
Last changed    : 11/9/2011 1:34:30 PM by THL
Analysis Method : D:\LC\DATA\XYZ\XYZ-2-19\XYZ-2-19 2014-07-26 11-09-25\001-0201.D\DA.M (ADH-30-70-1ML-254NM-30MIN.M)
Last changed    : 7/31/2014 3:33:12 PM by WL
                  (modified after loading)
=====
```



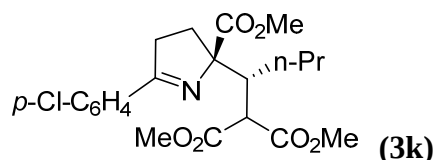
Area Percent Report

```
Sorted By      :      Signal
Multiplier     :      1.0000
Dilution       :      1.0000
Use Multiplier & Dilution Factor with ISTDs
```

Signal 1: VMD1 A, Wavelength=254 nm

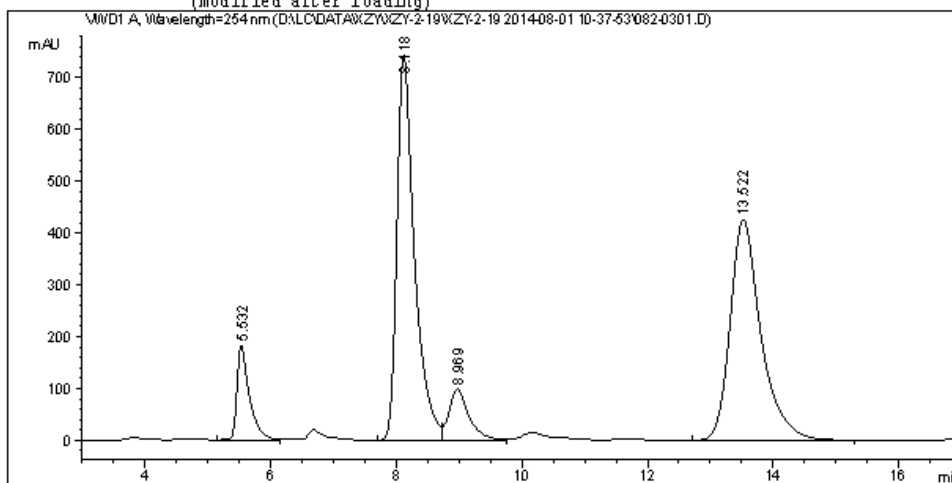
Peak #	RetTime [min]	Type	Width [min]	Area mAU *s	Height [mAU]	Area %
1	7.574	BB	0.3079	1.26540e4	587.81494	82.7865
2	9.248	BB	0.3792	1760.44971	66.40665	11.5174
3	13.534	MM	0.5774	45.82537	1.32274	0.2998
4	16.053	BB	0.6836	824.81781	17.41398	5.3962

Totals : 1.52851e4 672.95832



Data File D:\LC\DATA\XYZ\XYZ-2-19\XYZ-2-19 2014-08-01 10-37-53\082-0301.D
 Sample Name: XYZ-2-17K

```
=====
Acq. Operator   : HR                      Seq. Line :    3
Acq. Instrument : Instrument 1             Location  : Vial 82
Injection Date  : 8/1/2014 11:21:49 AM     Inj       :    1
                                           Inj Volume: 5 µl
Acq. Method     : D:\LC\DATA\XYZ\XYZ-2-19\XYZ-2-19 2014-08-01 10-37-53\ADH-30-70-1ML-254NM-
30MIN.M
Last changed    : 7/31/2014 2:57:48 PM by HR
Analysis Method : D:\LC\DATA\XYZ\XYZ-2-19\XYZ-2-19 2014-08-01 10-37-53\082-0301.D\DA.M (ADH-
30-70-1ML-254NM-30MIN.M)
Last changed    : 8/1/2014 2:36:48 PM by HR
(modified after loading)
=====
```



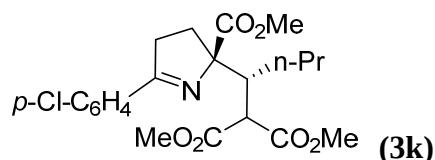
```
=====
                          Area Percent Report
=====
```

```
Sorted By      :      Signal
Multiplier     :      1.0000
Dilution       :      1.0000
Use Multiplier & Dilution Factor with ISTDs
```

Signal 1: VMD1 A, Wavelength=254 nm

Peak #	RetTime [min]	Type	Width [min]	Area mAU *s	Height [mAU]	Area %
1	5.532	WV	0.1987	2520.02197	182.73369	7.5034
2	8.118	BV	0.2861	1.44311e4	743.68329	42.9686
3	8.969	WV	0.3207	2165.53540	98.45166	6.4479
4	13.522	BB	0.5039	1.44686e4	426.09760	43.0802

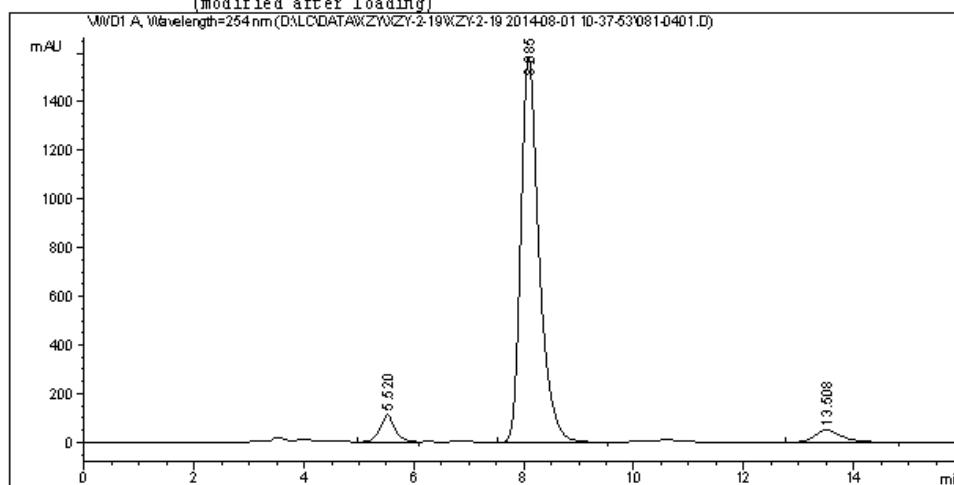
```
Totals :                      3.35852e4  1450.96623
```



Data File D:\LC\DATA\XYZ\XYZ-2-19\XYZ-2-19 2014-08-01 10-37-53\081-0401.D
 Sample Name: XYZ-2-19K

```

=====
Acq. Operator   : HR                      Seq. Line :    4
Acq. Instrument : Instrument 1             Location  : Vial 81
Injection Date  : 8/1/2014 11:53:23 AM     Inj       :    1
                                           Inj Volume: 5 µl
Acq. Method     : D:\LC\DATA\XYZ\XYZ-2-19\XYZ-2-19 2014-08-01 10-37-53\ADH-30-70-1ML-254NM-
30MIN.M
Last changed    : 7/31/2014 2:57:48 PM by HR
Analysis Method : D:\LC\DATA\XYZ\XYZ-2-19\XYZ-2-19 2014-08-01 10-37-53\081-0401.D\DA.M (ADH-
30-70-1ML-254NM-30MIN.M)
Last changed    : 8/1/2014 2:39:00 PM by HR
(modified after loading)
  
```



Area Percent Report

```

Sorted By      : Signal
Multiplier     : 1.0000
Dilution       : 1.0000
Use Multiplier & Dilution Factor with ISTDs
  
```

Signal 1: VMD1 A, Wavelength=254 nm

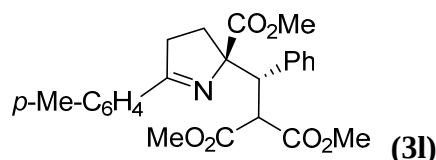
Peak #	RetTime [min]	Type	Width [min]	Area mAU*s	Height [mAU]	Area %
1	5.520	VB	0.2615	2143.65796	114.05583	5.3064
2	8.085	BB	0.3459	3.65028e4	1584.63965	90.3597
3	13.508	BB	0.5151	1750.75684	50.50740	4.3339

Totals : 4.03972e4 1749.20288

*** End of Report ***

Instrument 1 8/1/2014 2:39:07 PM HR

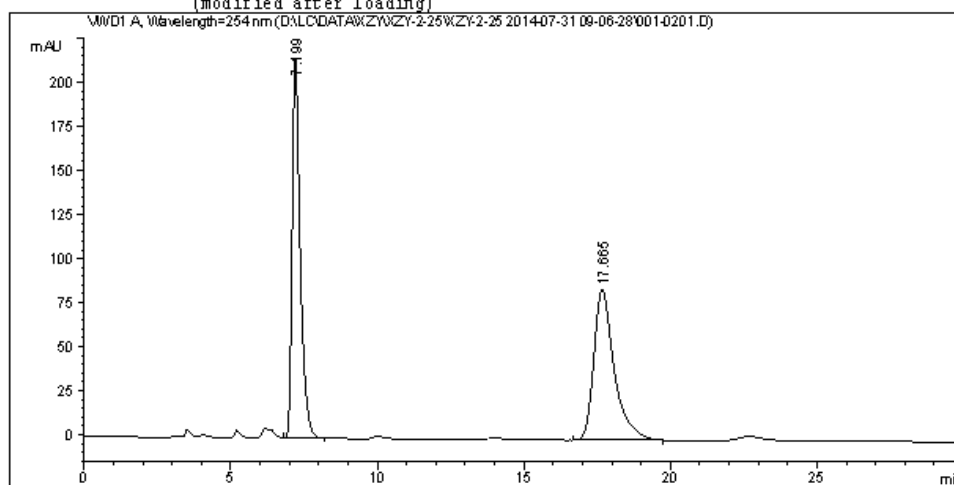
Page 1 of 1



Data File D:\LC\DATA\XYZ\XYZ-2-25\XYZ-2-25 2014-07-31 09-06-28\001-0201.D
 Sample Name: xyz-2-25a

```

=====
Acq. Operator   : WL                               Seq. Line :    2
Acq. Instrument : Instrument 1                     Location  : Vial 1
Injection Date  : 7/31/2014 9:14:12 AM             Inj       :    1
                                                    Inj Volume: 5 µl
Acq. Method     : D:\LC\DATA\XYZ\XYZ-2-25\XYZ-2-25 2014-07-31 09-06-28\ADH-30-70-1ML-254NM.M
Last changed    : 7/31/2014 9:43:06 AM by WL
                  (modified after loading)
Analysis Method : D:\LC\DATA\XYZ\XYZ-2-25\XYZ-2-25 2014-07-31 09-06-28\001-0201.D\DA.M (ADH-
                  30-70-1ML-254NM.M)
Last changed    : 7/31/2014 3:38:33 PM by WL
                  (modified after loading)
=====
  
```



Area Percent Report

```

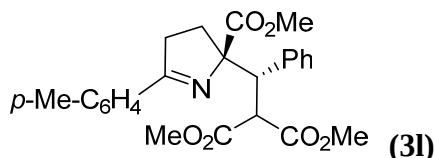
Sorted By       :      Signal
Multiplier      :      1.0000
Dilution        :      1.0000
Use Multiplier & Dilution Factor with ISTDs
  
```

Signal 1: VMD1 A, Wavelength=254 nm

Peak #	RetTime [min]	Type	Width [min]	Area mAU *s	Height [mAU]	Area %
1	7.199	VB	0.2790	4097.55908	216.56984	49.7607
2	17.665	BB	0.7237	4136.97607	85.42342	50.2393

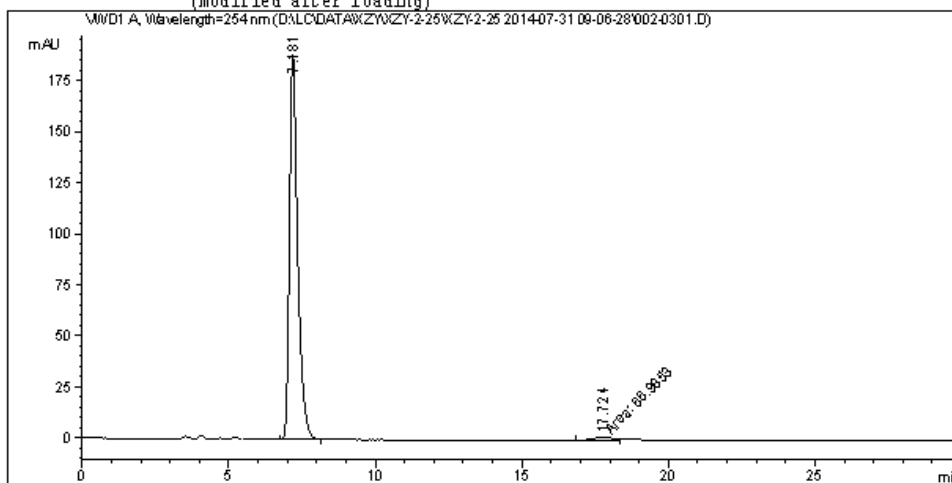
Totals : 8234.53516 301.99326

*** End of Report ***



Data File D:\LC\DATA\XYZ\XYZ-2-25\XYZ-2-25 2014-07-31 09-06-28\002-0301.D
 Sample Name: xyz-2-26a

```
=====
Acq. Operator   : WL                               Seq. Line :    3
Acq. Instrument : Instrument 1                     Location  : Vial 2
Injection Date  : 7/31/2014 9:45:56 AM             Inj       :    1
                                                    Inj Volume: 5 µl
Acq. Method     : D:\LC\DATA\XYZ\XYZ-2-25\XYZ-2-25 2014-07-31 09-06-28\ADH-30-70-1ML-254NM-
30MIN.M
Last changed    : 11/9/2011 1:34:30 PM by THL
Analysis Method : D:\LC\DATA\XYZ\XYZ-2-25\XYZ-2-25 2014-07-31 09-06-28\002-0301.D\DA.M (ADH-
30-70-1ML-254NM-30MIN.M)
Last changed    : 7/31/2014 3:39:38 PM by WL
(modified after loading)
=====
```



Area Percent Report

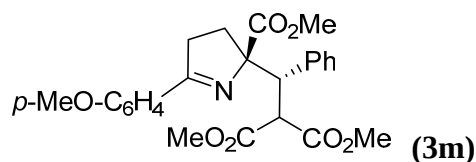
```
Sorted By      : Signal
Multiplier     : 1.0000
Dilution       : 1.0000
Use Multiplier & Dilution Factor with ISTDs
```

Signal 1: VMD1 A, Wavelength=254 nm

Peak #	RetTime [min]	Type	Width [min]	Area mAU *s	Height [mAU]	Area %
1	7.181	VB	0.2877	3655.29736	188.23477	98.2004
2	17.724	MM	0.7449	66.98528	1.49878	1.7996

Totals : 3722.28264 189.73355

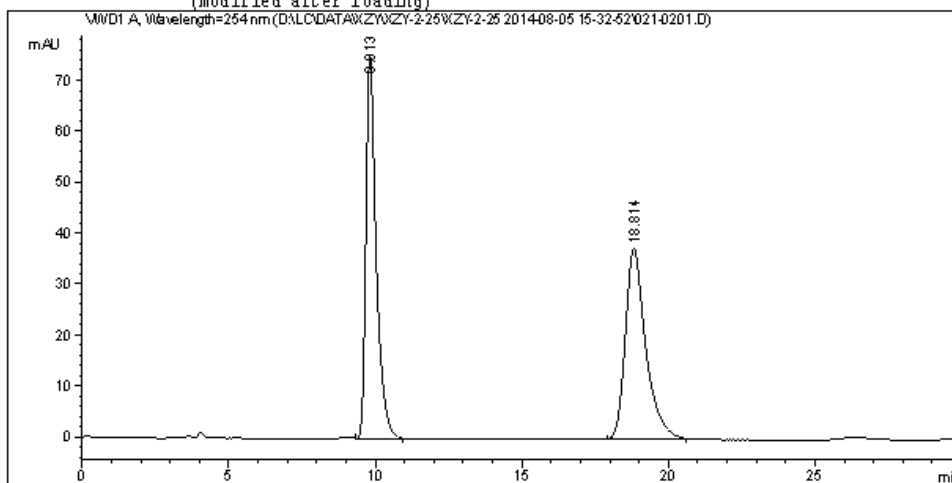
*** End of Report ***



Data File D:\LC\DATA\XYZ\XYZ-2-25\XYZ-2-25 2014-08-05 15-32-52\021-0201.D
 Sample Name: XYZ-2-25B

```

=====
Acq. Operator   : HR                      Seq. Line :    2
Acq. Instrument : Instrument 1             Location  : Vial 21
Injection Date  : 8/5/2014 3:49:05 PM      Inj       :    1
                                           Inj Volume: 5 µl
Acq. Method     : D:\LC\DATA\XYZ\XYZ-2-25\XYZ-2-25 2014-08-05 15-32-52\ADH-30-70-1ML-254NM-
30MIN.M
Last changed    : 7/31/2014 2:57:48 PM by HR
Analysis Method : D:\LC\DATA\XYZ\XYZ-2-25\XYZ-2-25 2014-08-05 15-32-52\021-0201.D\DA.M (ADH-
30-70-1ML-254NM-30MIN.M)
Last changed    : 8/7/2014 3:06:07 PM by HR
(modified after loading)
  
```



Area Percent Report

```

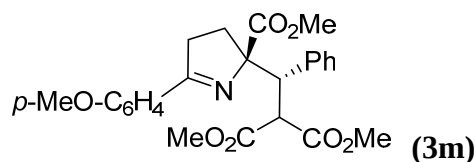
Sorted By       : Signal
Multiplier      : 1.0000
Dilution        : 1.0000
Use Multiplier & Dilution Factor with ISTDs
  
```

Signal 1: VMD1 A, Wavelength=254 nm

Peak #	RetTime [min]	Type	Width [min]	Area mAU *s	Height [mAU]	Area %
1	9.813	VB	0.3567	1824.41663	75.35106	50.1863
2	18.814	BB	0.7130	1810.87219	37.42571	49.8137

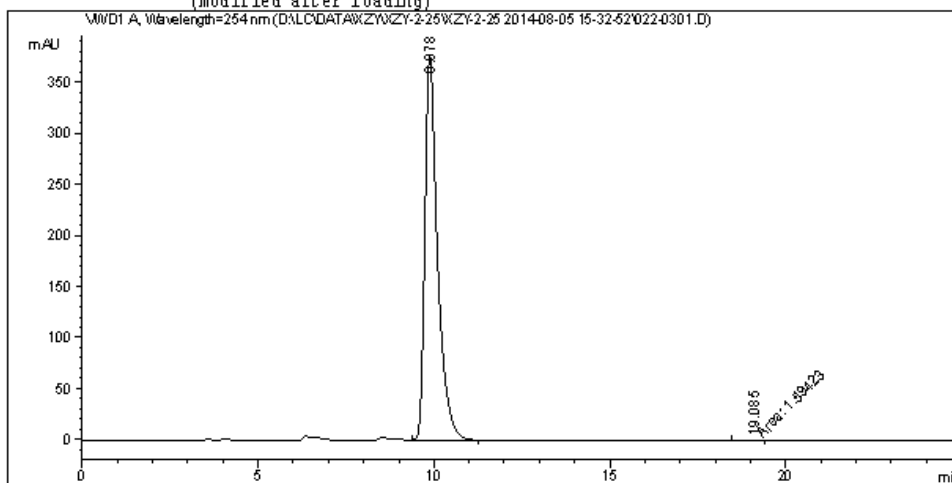
Totals : 3635.28882 112.77677

*** End of Report ***



Data File D:\LC\DATA\XYZ\XYZ-2-25\XYZ-2-25 2014-08-05 15-32-52\022-0301.D
 Sample Name: XYZ-2-26B

```
=====
Acq. Operator   : HR                      Seq. Line :    3
Acq. Instrument : Instrument 1             Location  : Vial 22
Injection Date  : 8/5/2014 4:20:48 PM      Inj       :    1
                                           Inj Volume: 5 µl
Acq. Method     : D:\LC\DATA\XYZ\XYZ-2-25\XYZ-2-25 2014-08-05 15-32-52\ADH-30-70-1ML-254NM-30MIN.M
Last changed    : 7/31/2014 2:57:48 PM by HR
Analysis Method : D:\LC\DATA\XYZ\XYZ-2-25\XYZ-2-25 2014-08-05 15-32-52\022-0301.D\DA.M (ADH-30-70-1ML-254NM-30MIN.M)
Last changed    : 8/7/2014 3:07:55 PM by HR
                  (modified after loading)
=====
```



```
=====
                          Area Percent Report
=====
```

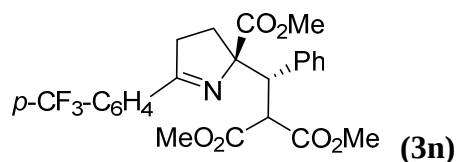
```
Sorted By      :      Signal
Multiplier     :      1.0000
Dilution       :      1.0000
Use Multiplier & Dilution Factor with ISTDs
```

Signal 1: VMD1 A, Wavelength=254 nm

Peak #	RetTime [min]	Type	Width [min]	Area mAU *s	Height [mAU]	Area %
1	9.878	BB	0.3676	9388.94434	377.18561	99.9830
2	19.085	MM	0.4970	1.59423	5.34617e-2	0.0170

Totals : 9390.53856 377.23907

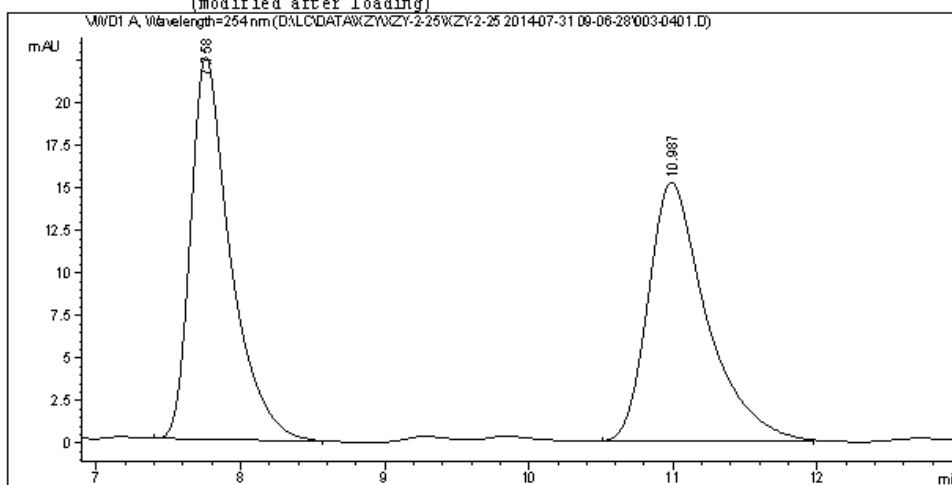
```
=====
*** End of Report ***
=====
```



Data File D:\LC\DATA\XYZ\XYZ-2-25\XYZ-2-25 2014-07-31 09-06-28\003-0401.D
 Sample Name: xyz-2-25c

```

=====
Acq. Operator   : WL                      Seq. Line :    4
Acq. Instrument : Instrument 1             Location  : Vial 3
Injection Date  : 7/31/2014 10:17:10 AM    Inj       :    1
                                           Inj Volume: 5 µl
Acq. Method     : D:\LC\DATA\XYZ\XYZ-2-25\XYZ-2-25 2014-07-31 09-06-28\ADH-30-70-1ML-254NM.M
Last changed    : 7/31/2014 10:40:24 AM by WL
                  (modified after loading)
Analysis Method : D:\LC\DATA\XYZ\XYZ-2-25\XYZ-2-25 2014-07-31 09-06-28\003-0401.D\DA.M (ADH-
                  30-70-1ML-254NM.M)
Last changed    : 7/31/2014 3:40:44 PM by WL
                  (modified after loading)
=====
  
```



Area Percent Report

```

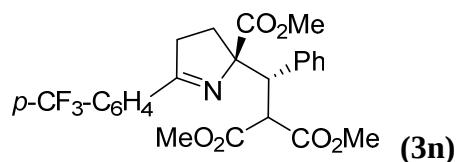
Sorted By      : Signal
Multiplier     : 1.0000
Dilution       : 1.0000
Use Multiplier & Dilution Factor with ISTDs
  
```

Signal 1: VMD1 A, Wavelength=254 nm

Peak #	RetTime [min]	Type	Width [min]	Area mAU *s	Height [mAU]	Area %
1	7.758	BB	0.2821	431.08664	22.46807	50.1768
2	10.987	BB	0.4217	428.04892	15.20157	49.8232

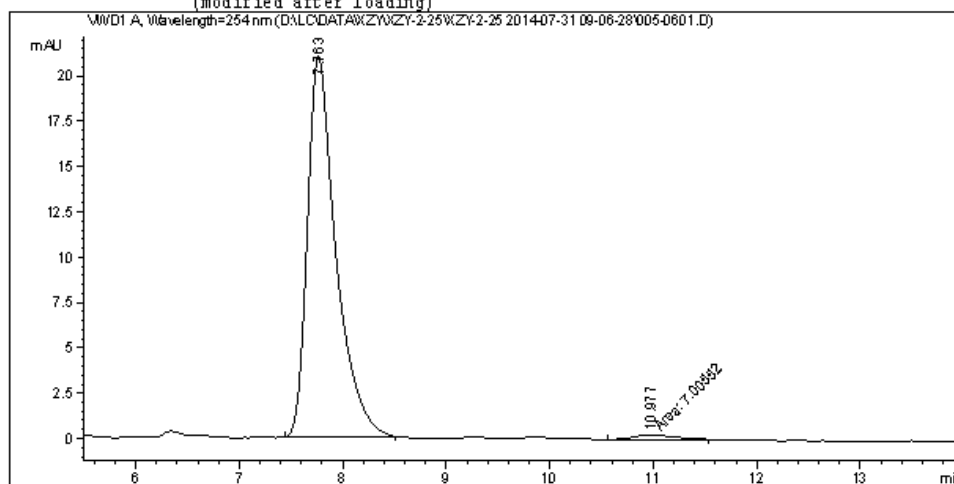
Totals : 859.13556 37.66964

*** End of Report ***



Data File D:\LC\DATA\XYZ\XYZ-2-25\XYZ-2-25 2014-07-31 09-06-28\005-0601.D
 Sample Name: xyz-2-26c

```
=====
Acq. Operator   : WL                      Seq. Line :    6
Acq. Instrument : Instrument 1             Location  : Vial 5
Injection Date  : 7/31/2014 11:14:32 AM    Inj       :    1
                                           Inj Volume: 5 µl
Acq. Method     : D:\LC\DATA\XYZ\XYZ-2-25\XYZ-2-25 2014-07-31 09-06-28\ADH-30-70-1ML-254NM-30MIN.M
Last changed    : 7/31/2014 11:35:38 AM by WL
                  (modified after loading)
Analysis Method : D:\LC\DATA\XYZ\XYZ-2-25\XYZ-2-25 2014-07-31 09-06-28\005-0601.D\DA.M (ADH-30-70-1ML-254NM-30MIN.M)
Last changed    : 7/31/2014 3:42:04 PM by WL
                  (modified after loading)
=====
```



Area Percent Report

```
Sorted By      : Signal
Multiplier     : 1.0000
Dilution       : 1.0000
Use Multiplier & Dilution Factor with ISTDs
```

Signal 1: VWD1 A, Wavelength=254 nm

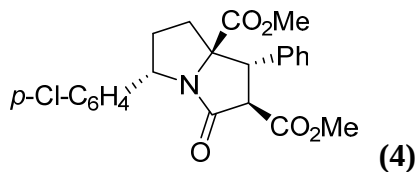
Peak #	RetTime [min]	Type	Width [min]	Area mAU	Height [mAU]	Area %
1	7.763	BB	0.2838	403.79498	21.02367	98.2947
2	10.977	MM	0.4305	7.00552	2.71246e-1	1.7053

Totals : 410.80050 21.29491

*** End of Report ***

Instrument 1 7/31/2014 3:42:09 PM WL

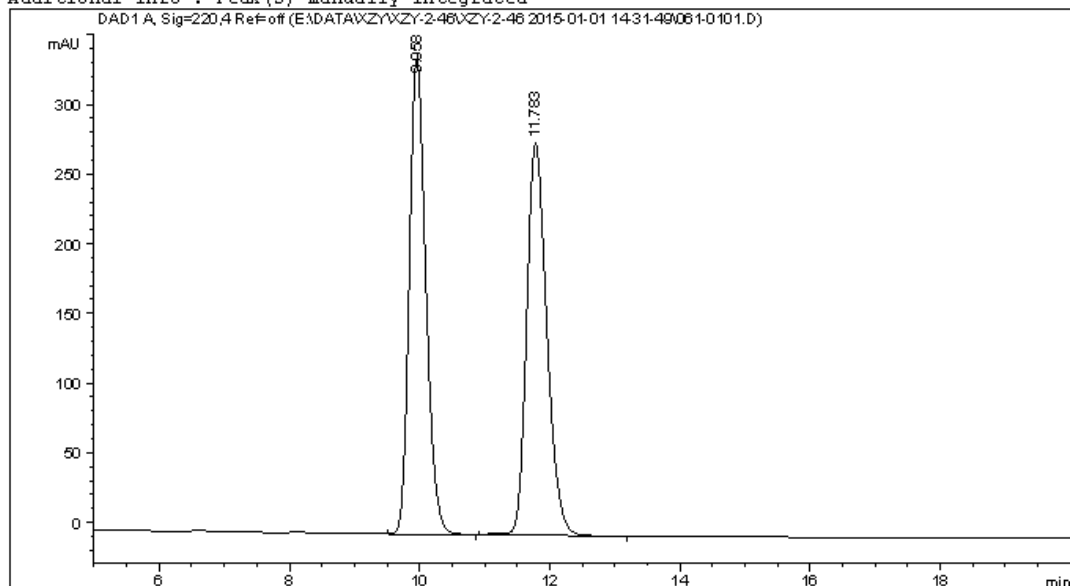
Page 1 of 1



Data File E:\DATA\XYZ\XYZ-2-46\XYZ-2-46 2015-01-01 14-31-49\061-0101.D
 Sample Name: XYZ-2-46B

```
=====
Acq. Operator   : SYSTEM                      Seq. Line :    1
Acq. Instrument : 1260HPLC-DAD                Location  : Vial 61
Injection Date  : 1/1/2015 2:32:40 PM          Inj       :    1
                                           Inj Volume: 5.000 µl

Acq. Method     : E:\DATA\XYZ\XYZ-2-46\XYZ-2-46 2015-01-01 14-31-49\
40MIN(1-2).M
Last changed    : 1/1/2015 2:31:49 PM by SYSTEM
Analysis Method : E:\DATA\XYZ\XYZ-2-46\XYZ-2-46 2015-01-01 14-31-49\
40MIN(1-2).M (Sequence Method)
Last changed    : 1/21/2015 10:01:30 AM by SYSTEM
                  (modified after loading)
Additional Info : Peak(s) manually integrated
```



Area Percent Report

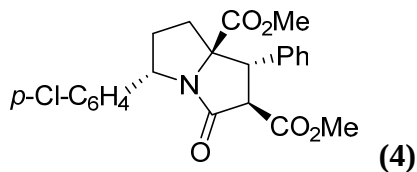
```
Sorted By      : Signal
Multiplier     : 1.0000
Dilution       : 1.0000
Do not use Multiplier & Dilution Factor with ISTDs
```

Signal 1: DAD1 A, Sig=220.4 Ref=off

Peak #	RetTime [min]	Type	Width [min]	Area [mAU*s]	Height [mAU]	Area %
1	9.958	BB	0.2716	6021.65479	341.70932	49.9041
2	11.783	BB	0.3304	6044.80859	281.58716	50.0959

Totals : 1.20665e4 623.29648

*** End of Report ***



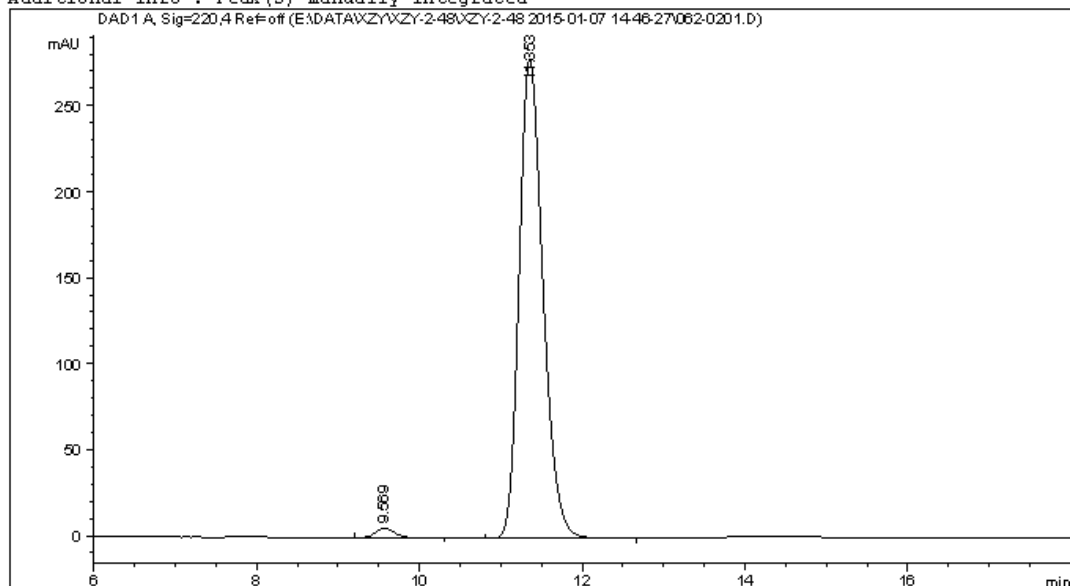
Data File E:\DATA\XYZ\XYZ-2-48\XYZ-2-48 2015-01-07 14-46-27\062-0201.D
Sample Name: XYZ-2-48

```

=====
Acq. Operator   : SYSTEM                      Seq. Line :    2
Acq. Instrument : 1260HPLC-DAD                Location  : Vial 62
Injection Date  : 1/7/2015 3:08:14 PM          Inj       :    1
                                           Inj Volume: 5.000 µl

Acq. Method     : E:\DATA\XYZ\XYZ-2-48\XYZ-2-48 2015-01-07 14-46-27\
40MIN(1-2).M
Last changed    : 1/7/2015 2:48:27 PM by SYSTEM
Analysis Method : E:\DATA\XYZ\XYZ-2-48\XYZ-2-48 2015-01-07 14-46-27\
40MIN(1-2).M (Sequence Method)
Last changed    : 1/21/2015 10:03:52 AM by SYSTEM
                  (modified after loading)
Additional Info : Peak(s) manually integrated

```



Area Percent Report

```

Sorted By      :      Signal
Multiplier     :      1.0000
Dilution       :      1.0000
Do not use Multiplier & Dilution Factor with ISTDs

```

Signal 1: DAD1 A, Sig=220.4 Ref=off

Peak #	RetTime [min]	Type	Width [min]	Area [mAU*s]	Height [mAU]	Area %
1	9.569	BB	0.2553	87.10403	5.25724	1.5182
2	11.353	BB	0.3124	5650.29297	278.81476	98.4818

Totals : 5737.39700 284.07200

*** End of Report ***