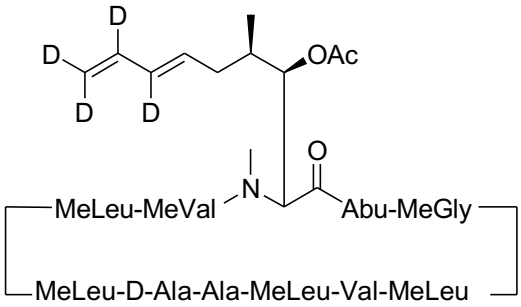
Certificate of Analysis

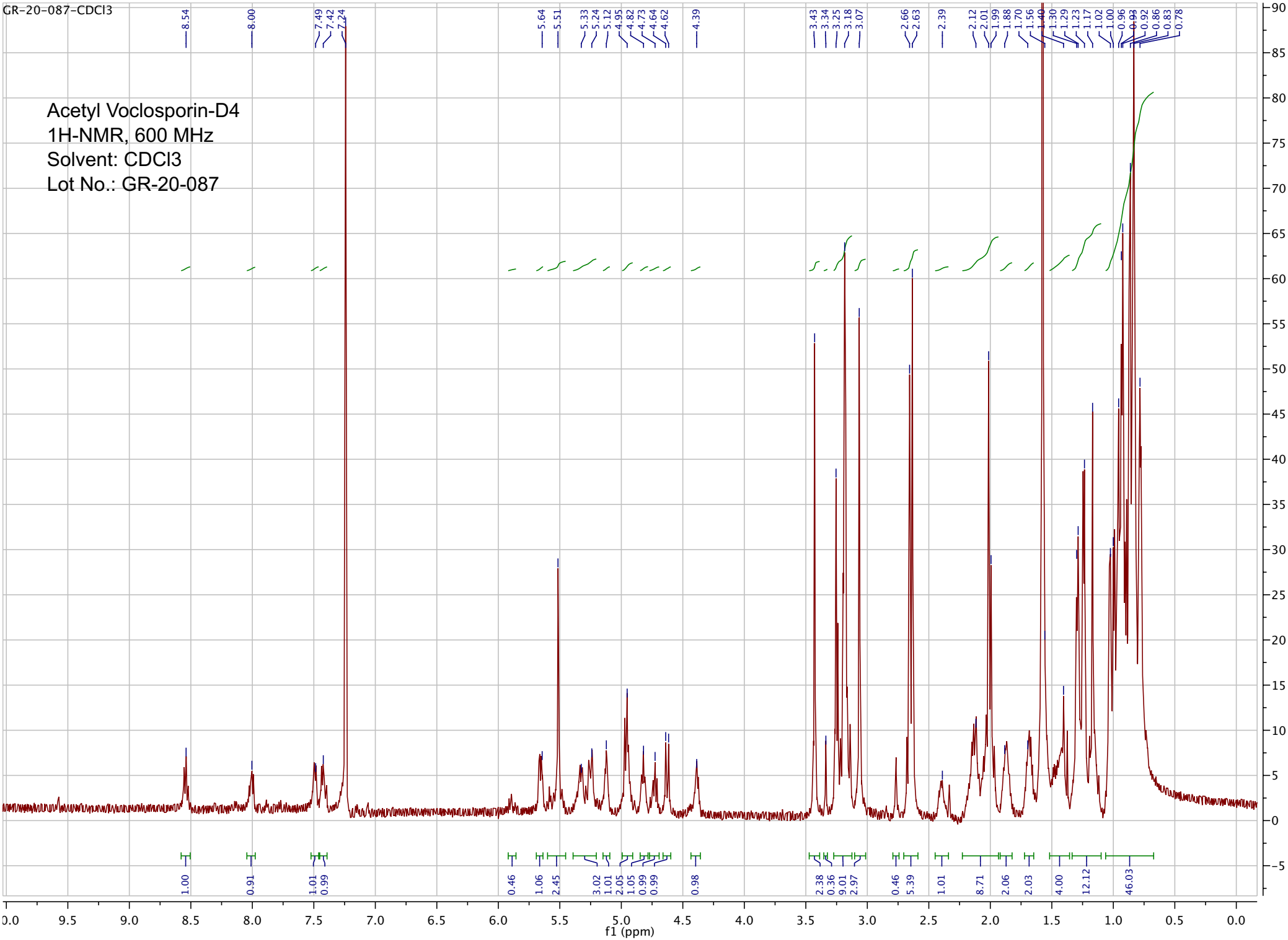


Name:	**Acetyl Voclosporin A-D4**
Lot#:	GR-20-087
Test Date:	03/06/2026 (re-test date: 03/06/2031)
CAS No.:	515814-02-5 (unlabelled)
MF:	$C_{65}H_{109}D_4N_{11}O_{13}$
MW:	1260.68
Appearance:	White Solid
Purity:	96.8% by HPLC (average of two sample preparations); >98% atom D
^{1}H-NMR:	Conforms (shows ~1.5:1 mixture of Z and E isomers)
MS-ESI (+)	Conforms (shows peak at m/z = 1260.88 $[M+H^+]^+$, 1282.87 $[M+Na^+]^+$)
Storage	Store at -18°C in a dry place away from direct sunlight under nitrogen

Approved by: Date: 03/12/2026

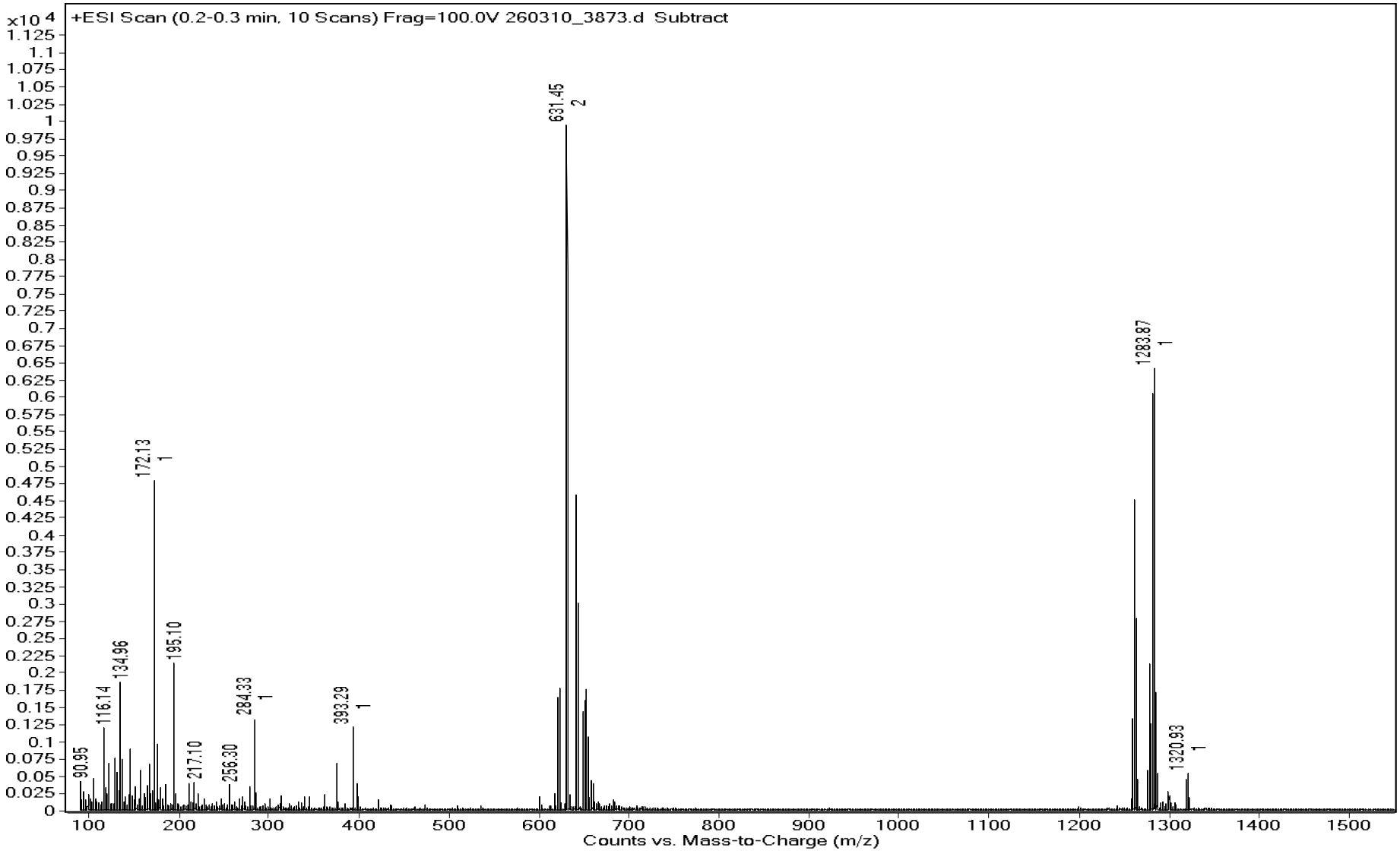
Viorica Rusu, QC/QA Manager

700, Collip Circle, The Research Park, London, ON, N6G 4X8
Ph: (647)4079078, e-mail: grusu@esschemco.com, www.esschemco.com


GR-20-087-CDCl3
Acetyl Voclosporin-D4
1H-NMR, 600 MHz
Solvent: CDCl3
Lot No.: GR-20-087
8.54
8.00
7.49
7.42
7.24
5.64
5.51
5.33
5.24
5.12
4.95
4.82
4.73
4.64
4.62
4.39
3.43
3.34
3.25
3.18
3.07
2.66
2.63
2.39
2.12
2.01
1.99
1.88
1.70
1.56
1.40
1.30
1.29
1.23
1.17
1.02
1.00
0.96
0.92
0.86
0.83
0.78
1.00
0.91
1.01
0.99
0.46
1.06
2.45
3.02
1.01
2.05
1.05
0.99
0.99
0.98
2.38
0.36
9.01
2.97
0.46
5.39
1.01
8.71
2.06
2.03
4.00
12.12
46.03
f1 (ppm)

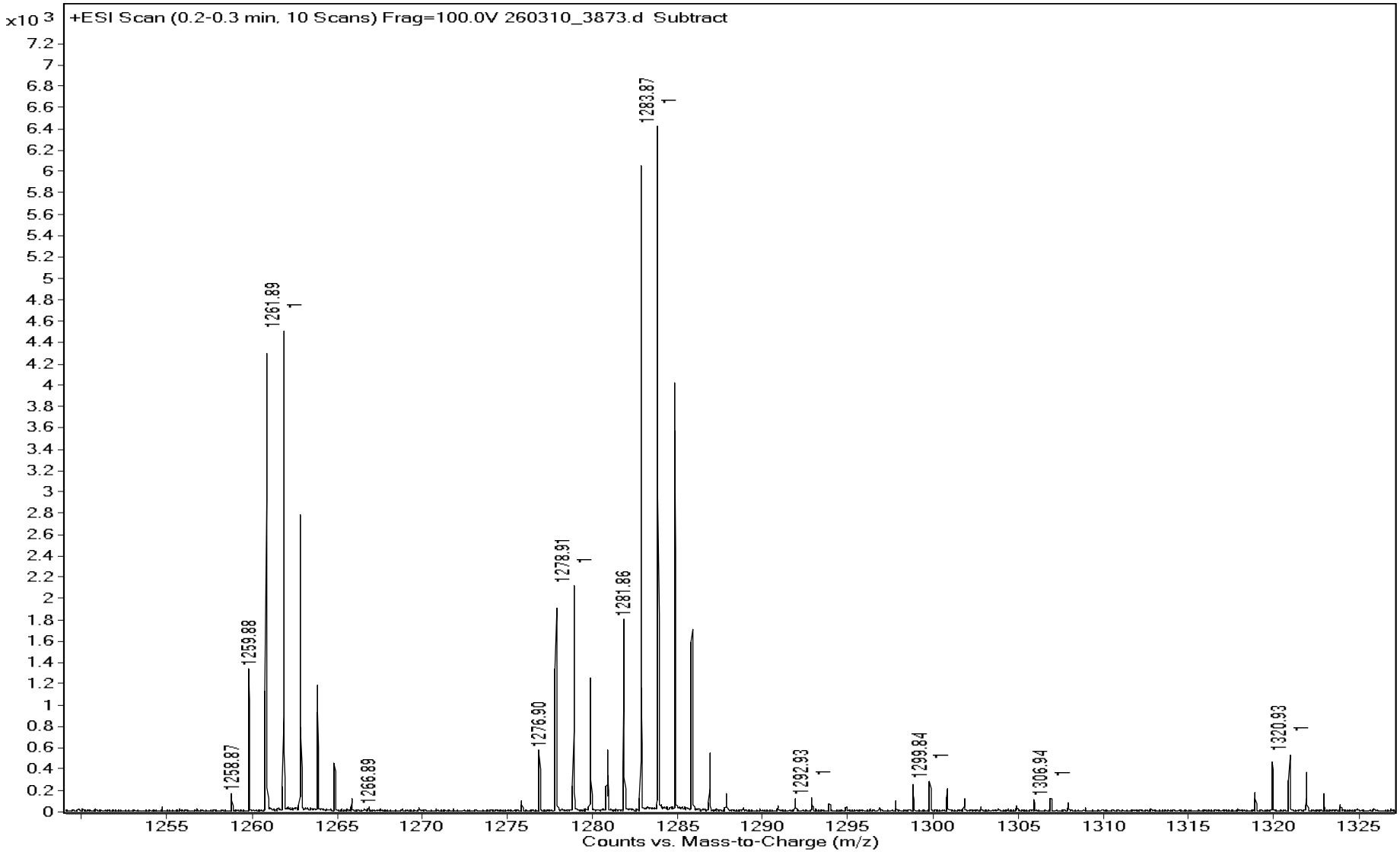
ESI Mass Spectrum

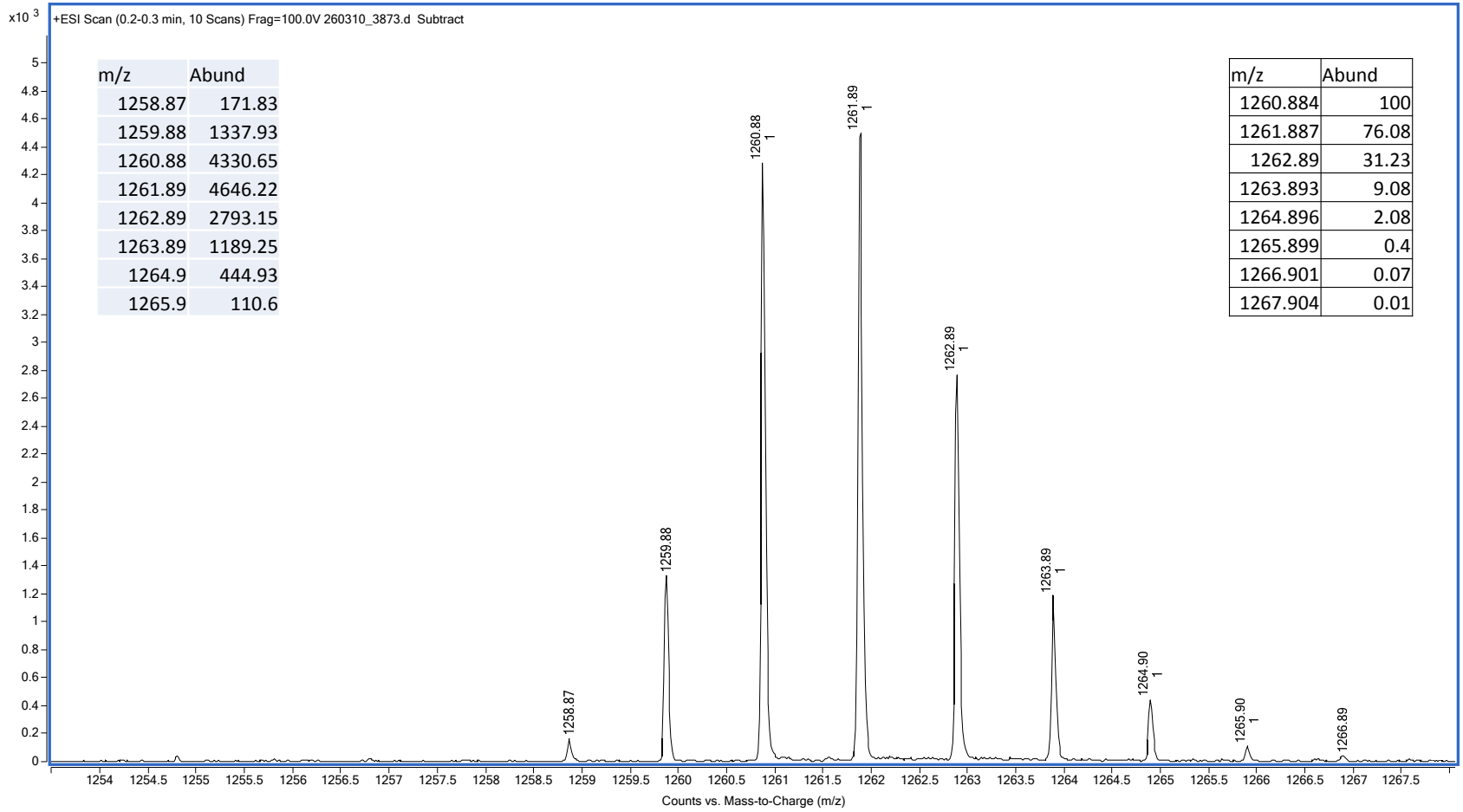
Sample Name	GR-20-087	**Data File**	260310_3873.d	**Acq Method**	HRMS_AS_100V.m
DA Method	AIMS_Accurate_Mass.m	**Instrument**	Agilent 6538 UHD	**Acq Date, Time**	11/03/2026 11:20:43 AM
Comment	ESI+				



ESI Mass Spectrum

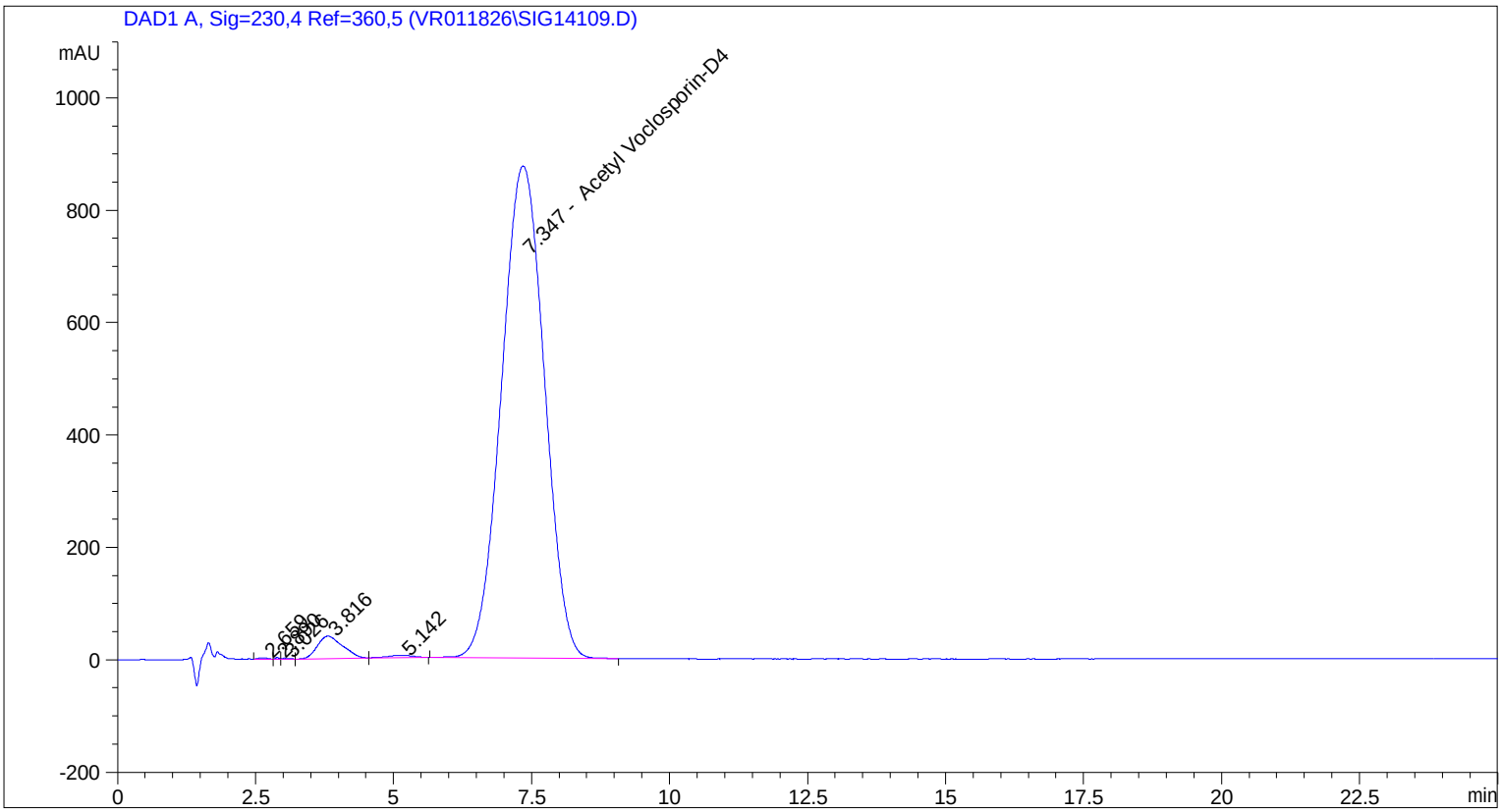
Sample Name	GR-20-087	**Data File**	260310_3873.d	**Acq Method**	HRMS_AS_100V.m
DA Method	AIMS_Accurate_Mass.m	**Instrument**	Agilent 6538 UHD	**Acq Date, Time**	11/03/2026 11:20:43 AM
Comment	ESI+				




x10 3
+ESI Scan (0.2-0.3 min, 10 Scans) Frag=100.0V 260310_3873.d Subtract
m/z Abund
1258.87 171.83
1259.88 1337.93
1260.88 4330.65
1261.89 4646.22
1262.89 2793.15
1263.89 1189.25
1264.9 444.93
1265.9 110.6
m/z Abund
1260.884 100
1261.887 76.08
1262.89 31.23
1263.893 9.08
1264.896 2.08
1265.899 0.4
1266.901 0.07
1267.904 0.01
1258.87
1259.88
1260.88
1261.89
1262.89
1263.89
1264.90
1265.90
1266.89
Counts vs. Mass-to-Charge (m/z)

Data File C:\CHEM32\1\DATA\VR011826\SIG14109.D
Sample Name: GR-20-087

```
==========================================================================
Acq. Operator   : vrusu
Acq. Instrument : Instrument 1                    Location : Vial 16
Injection Date  : 3/6/2026 10:15:33 AM
                                                  Inj Volume : 50.0 µl
Acq. Method     : C:\CHEM32\1\METHODS\VR030626_087.M
Last changed    : 3/6/2026 10:13:45 AM by vrusu
Analysis Method : C:\CHEM32\1\METHODS\VR030626_087PM.M
Last changed    : 3/6/2026 3:23:55 PM by vrusu
```



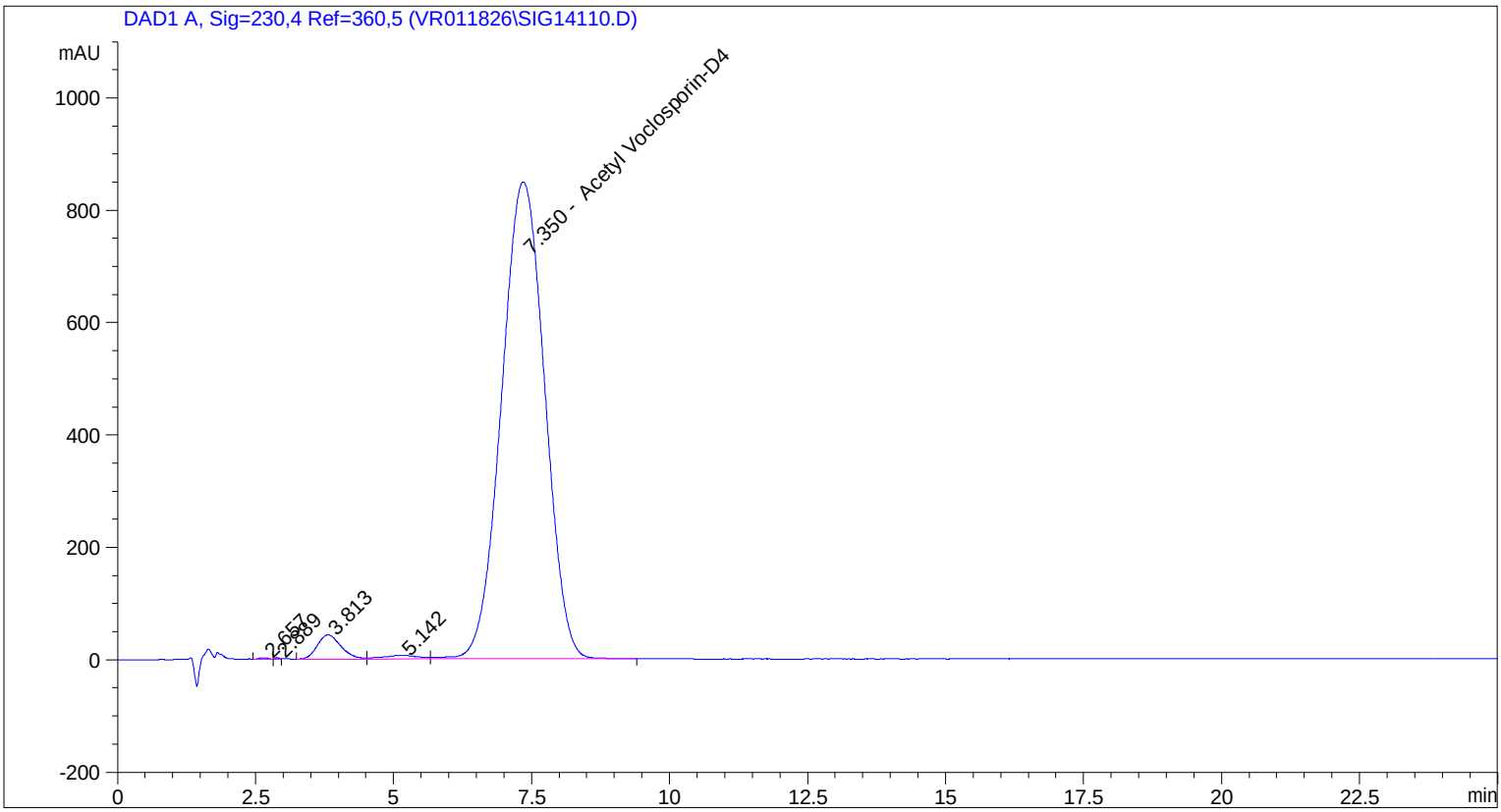

```
==========================================================================
                        Area Percent Report
==========================================================================

Sorted By             :      Signal
Calib. Data Modified  :      3/6/2026 3:23:11 PM
Multiplier:                   :      1.0000
Dilution:                     :      1.0000
Use Multiplier & Dilution Factor with ISTDs


Signal 1: DAD1 A, Sig=230,4 Ref=360,5

Peak RetTime  Type   Width     Area      Area    Name
  #   [min]          [min]   [mAU*s]       %
----|-------|------|-------|----------|--------|--------------------
   1   2.659 BB      0.1434   25.58703   0.0524 ?
   2   2.890 BV      0.0614   11.33874   0.0232 ?
   3   3.026 VB      0.0977    9.71104   0.0199 ?
   4   3.816 BV      0.4634 1273.83203   2.6106 ?
   5   5.142 VB      0.4012  146.64134   0.3005 ?
   6   7.347 BV      0.8466 4.73278e4   96.9933 Acetyl Voclosporin-D4

Totals :                   4.87949e4
```

==========

*** End of Report ***

Data File C:\CHEM32\1\DATA\VR011826\SIG14110.D
Sample Name: GR-20-087 spl-2

```
==========================================================================
Acq. Operator   : vrusu
Acq. Instrument : Instrument 1                    Location : Vial 17
Injection Date  : 3/6/2026 10:48:45 AM
                                                  Inj Volume : 50.0 µl
Acq. Method     : C:\CHEM32\1\METHODS\VR030626_087.M
Last changed    : 3/6/2026 10:46:53 AM by vrusu
Analysis Method : C:\CHEM32\1\METHODS\VR030626_087PM.M
Last changed    : 3/6/2026 3:23:55 PM by vrusu
```




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

Sorted By             :      Signal
Calib. Data Modified  :      3/6/2026 3:23:11 PM
Multiplier:                   :      1.0000
Dilution:                     :      1.0000
Use Multiplier & Dilution Factor with ISTDs


Signal 1: DAD1 A, Sig=230,4 Ref=360,5
```

Peak #	RetTime [min]	Type	Width [min]	Area [mAU*s]	Area %	Name
1	2.657	BB	0.1384	25.27426	0.0530	?
2	2.889	BV	0.0598	10.12868	0.0212	?
3	3.813	BV	0.4540	1275.41663	2.6722	?
4	5.142	VV	0.5365	281.14264	0.5890	?
5	7.350	VB	0.8441	4.61375e4	96.6646	Acetyl Voclosporin-D4

Totals : 4.77295e4

==========

*** End of Report ***