

Name:	34-Hydroxy Sirolimus
Lot#:	GR-19-221
Manufacture Date:	02/04/2025 (valid until: 02/04/2027)
CAS No.:	185107-79-3
MF:	C ₅₁ H ₈₁ NO ₁₄
MW:	932.19
Appearance:	Off-white solid
Purity:	96.2% by HPLC (average of two sample preparations)
¹H-NMR:	Conforms (contains ~1% of MeOH)
MS-ESI (+)	Conforms (shows peaks at m/z = 931.59 [M+H] ⁺ and 949.60 [M+NH ₄] ⁺)
Storage	Store at -18°C under nitrogen in a dry place away from direct sunlight

Approved by:

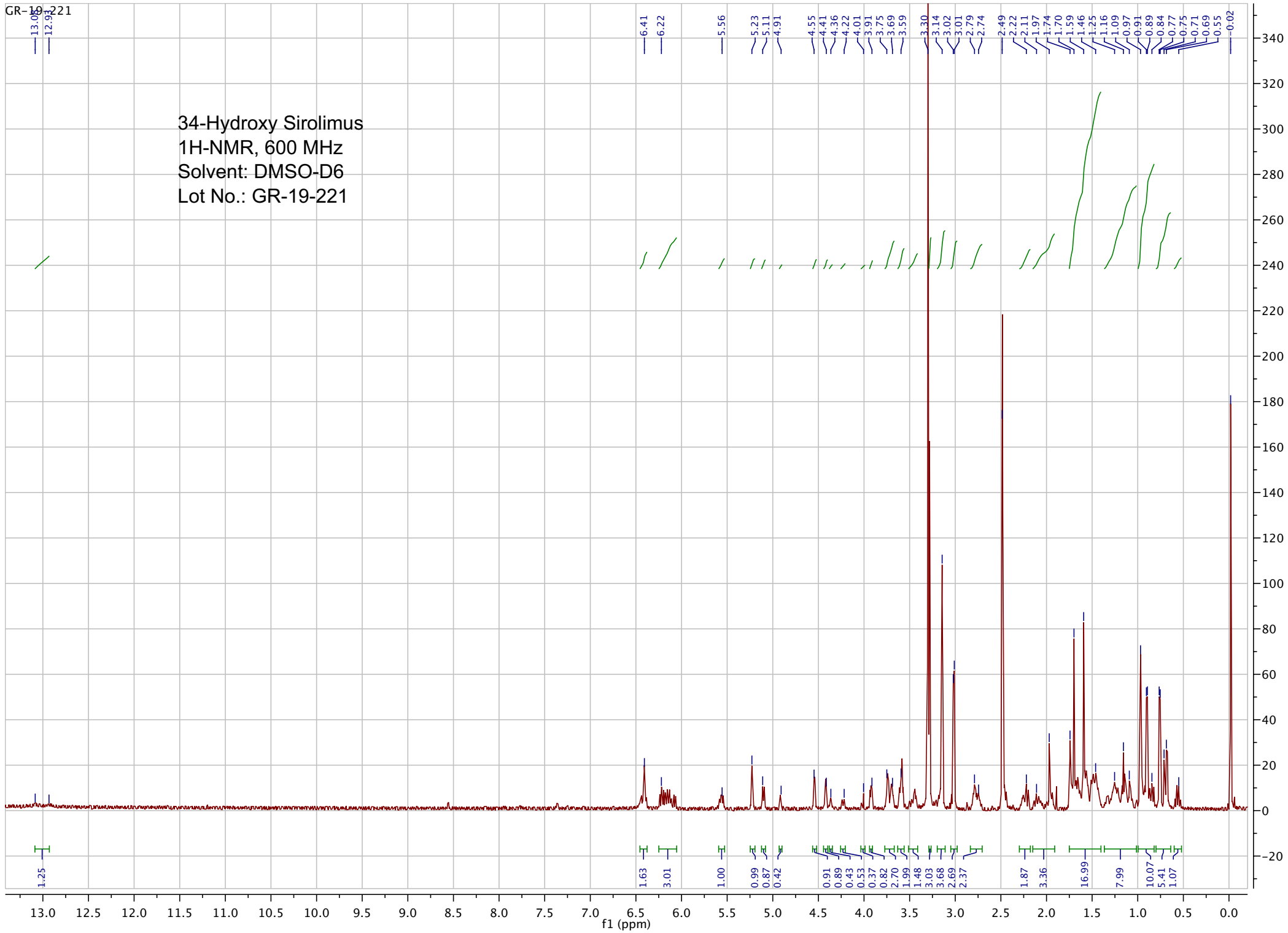
Date: 02/05/2025



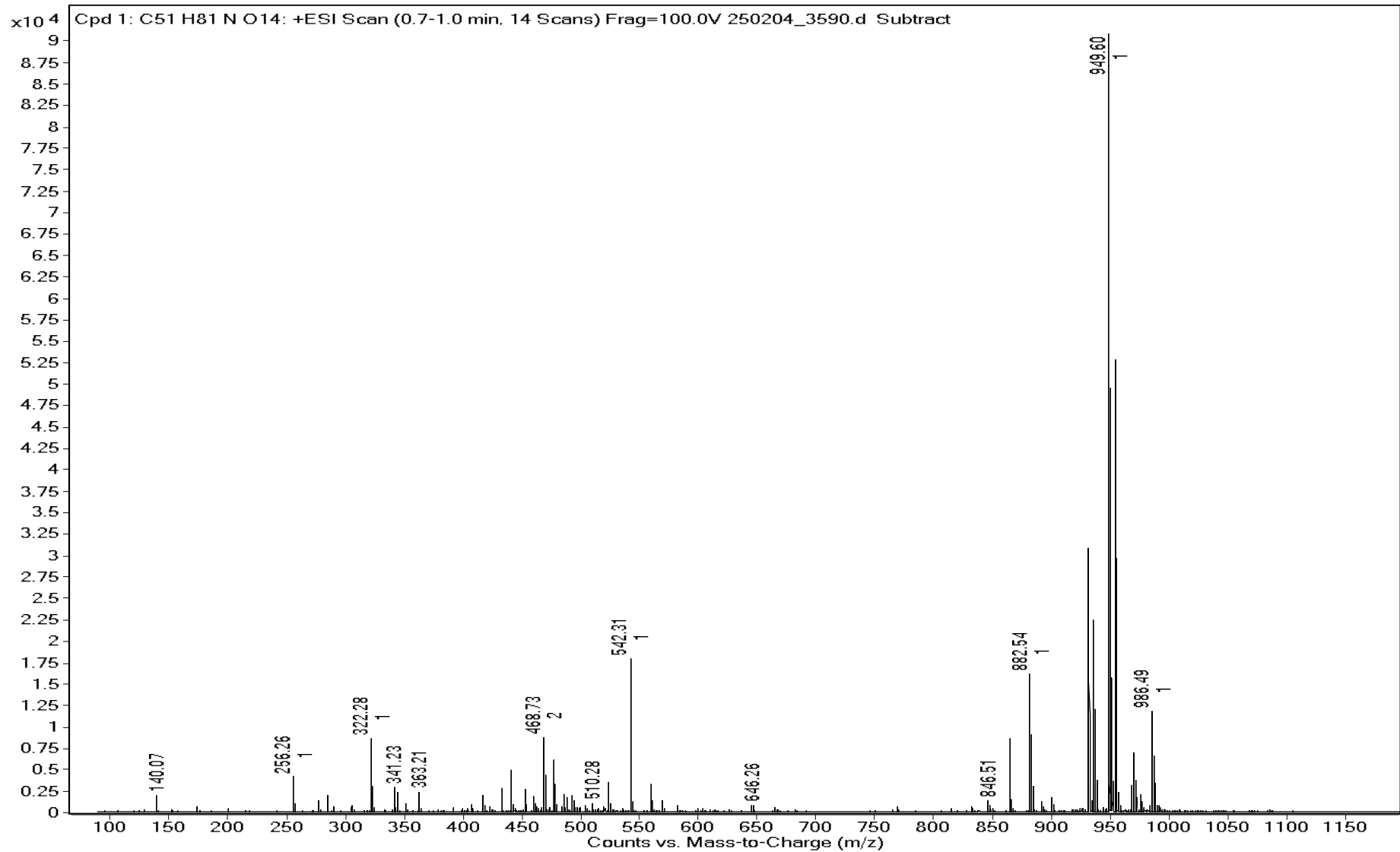
Viorica Rusu, QC/QA Manager

GR-19-221

34-Hydroxy Sirolimus
1H-NMR, 600 MHz
Solvent: DMSO-D6
Lot No.: GR-19-221



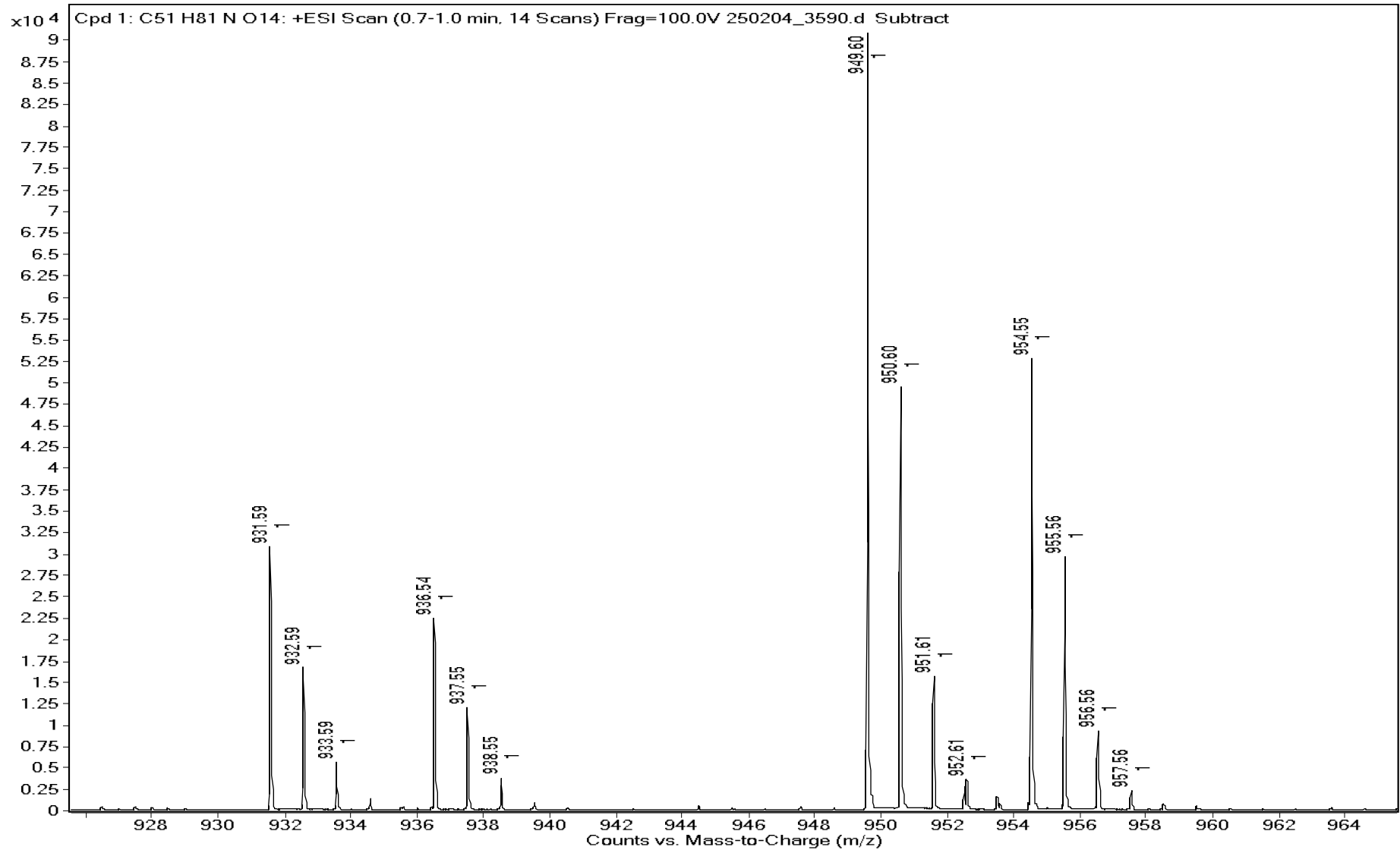
Sample Name	GR-19-221	Data File	250204_3590.d	Acq Method	HRMS.m
DA Method	AIMS_Accurate_Mass.m	Instrument	Agilent 6538 UHD	Acq Date, Time	04/02/2025 11:11:56 AM
Comment	ESI+				



Sample Name GR-19-221
DA Method AIMS_Accurate_Mass.m
Comment ESI+

Data File 250204_3590.d
Instrument Agilent 6538 UHD

Acq Method HRMS.m
Acq Date, Time 04/02/2025 11:11:56 AM



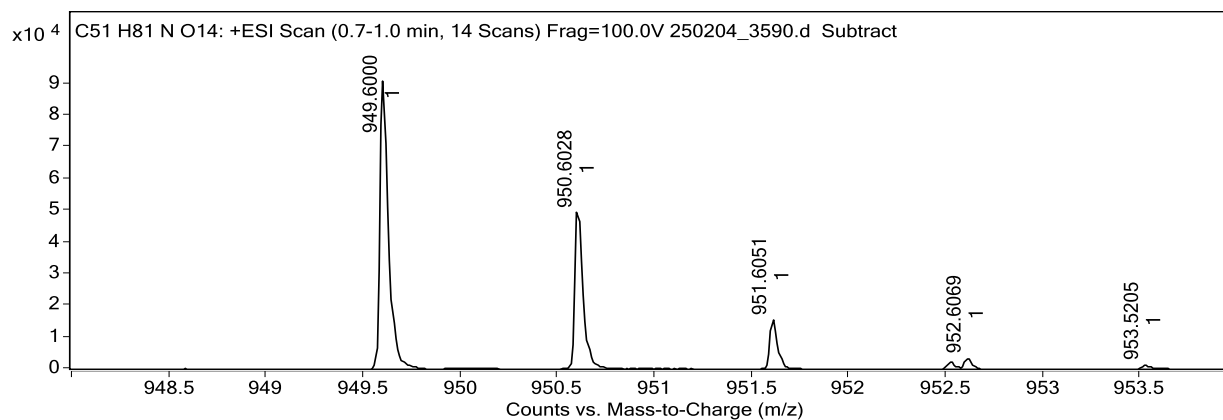
Sample Name	GR-19-221	Data File	250204_3590.d
Acq Method	HRMS.m	DA Method	AIMS_Accurate_Mass.m
Instrument	Agilent 6538 UHD	Acq Date, Time	04/02/2025 11:11:56 AM
Comment	ESI+		

Target Ion Species

Ion Species	m/z	Ionic Formula
(M+NH4)+	949.6	C51 H85 N2 O14

MFG Calculator Results

Target m/z	Ionic Formula	Calc m/z	+/- (mDa)	+/- (ppm)	DBE	MFG Score
949.6000	C51 H85 N2 O14	949.5995	0.5	0.5	12.0	99.16
949.6000	C52 H81 N6 O10	949.6009	-0.9	-0.9	17.0	97.89
949.6000	C53 H77 N10 O6	949.6022	-2.2	-2.3	22.0	93.38
949.6000	C47 H81 N8 O12	949.5968	3.2	3.4	13.0	92.51
949.6000	C64 H77 N4 O3	949.5990	1.0	1.1	30.0	90.80
949.6000	C40 H85 N8 O17	949.6027	-2.7	-2.8	4.0	88.22
949.6000	C46 H85 N4 O16	949.5955	4.5	4.7	8.0	85.20
949.6000	C60 H73 N10 O	949.5963	3.7	3.9	31.0	83.97
949.6000	C59 H77 N6 O5	949.5950	5.0	5.3	26.0	78.91

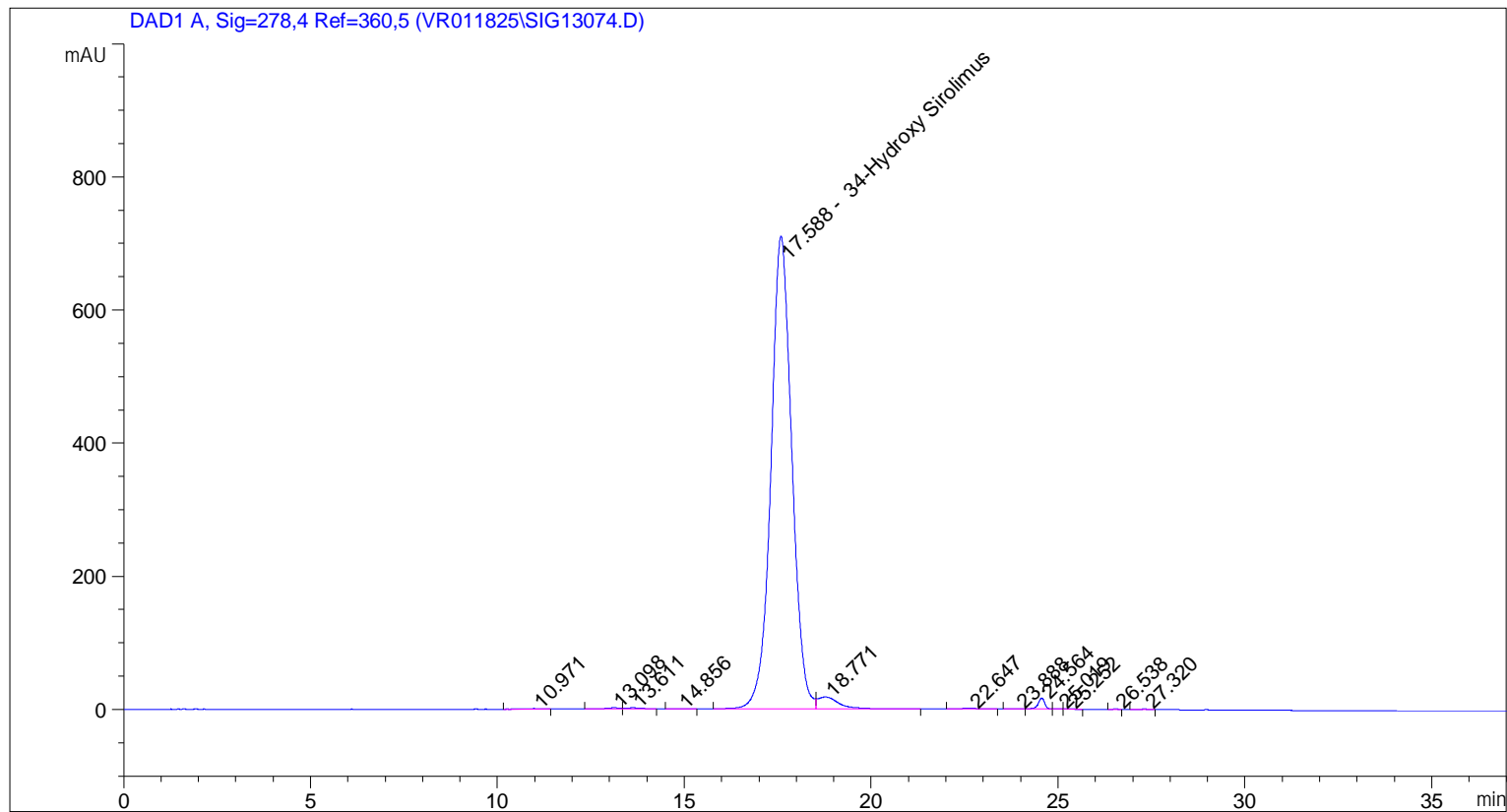


Predicted Isotope Match Table

Isotope	m/z	Calc m/z	Diff (mDa)	Abund (%)	Calc Abund (%)	+/-
1	949.6000	949.5995	0.5	100.0	100.0	0.0
2	950.6028	950.6029	-0.1	56.5	57.4	0.9
3	951.6051	951.6058	-0.7	17.2	19.1	1.9
4	952.6069	952.6087	-1.8	4.1	4.6	0.5

```

=====
Acq. Operator   : vrusu
Acq. Instrument : Instrument 1                Location : Vial 31
Injection Date  : 2/5/2025 8:32:28 AM
                                           Inj Volume : 20.0 µl
Acq. Method    : C:\CHEM32\1\METHODS\VR020425_221.M
Last changed   : 2/5/2025 8:29:26 AM by vrusu
Analysis Method: C:\CHEM32\1\METHODS\VR020525_221PM.M
Last changed   : 2/5/2025 11:08:19 AM
  
```



Area Percent Report

```

Sorted By      : Signal
Calib. Data Modified : 2/5/2025 11:07:23 AM
Multiplier:    : 1.0000
Dilution:     : 1.0000
Use Multiplier & Dilution Factor with ISTDs
  
```

Signal 1: DAD1 A, Sig=278,4 Ref=360,5

Peak #	RetTime [min]	Type	Width [min]	Area [mAU*s]	Area %	Name
1	10.971	BB	0.3468	27.68308	0.0964	?
2	13.098	BV	0.3344	48.27812	0.1681	?
3	13.611	VB	0.3690	51.98524	0.1810	?
4	14.856	BB	0.2948	10.26384	0.0357	?
5	17.588	BV	0.5937	2.76151e4	96.1355	34-Hydroxy Sirolimus
6	18.771	VB	0.5875	711.93115	2.4784	?
7	22.647	BB	0.4100	25.64778	0.0893	?
8	23.888	BV	0.2504	7.19215	0.0250	?

Sample Name: GR-19-221

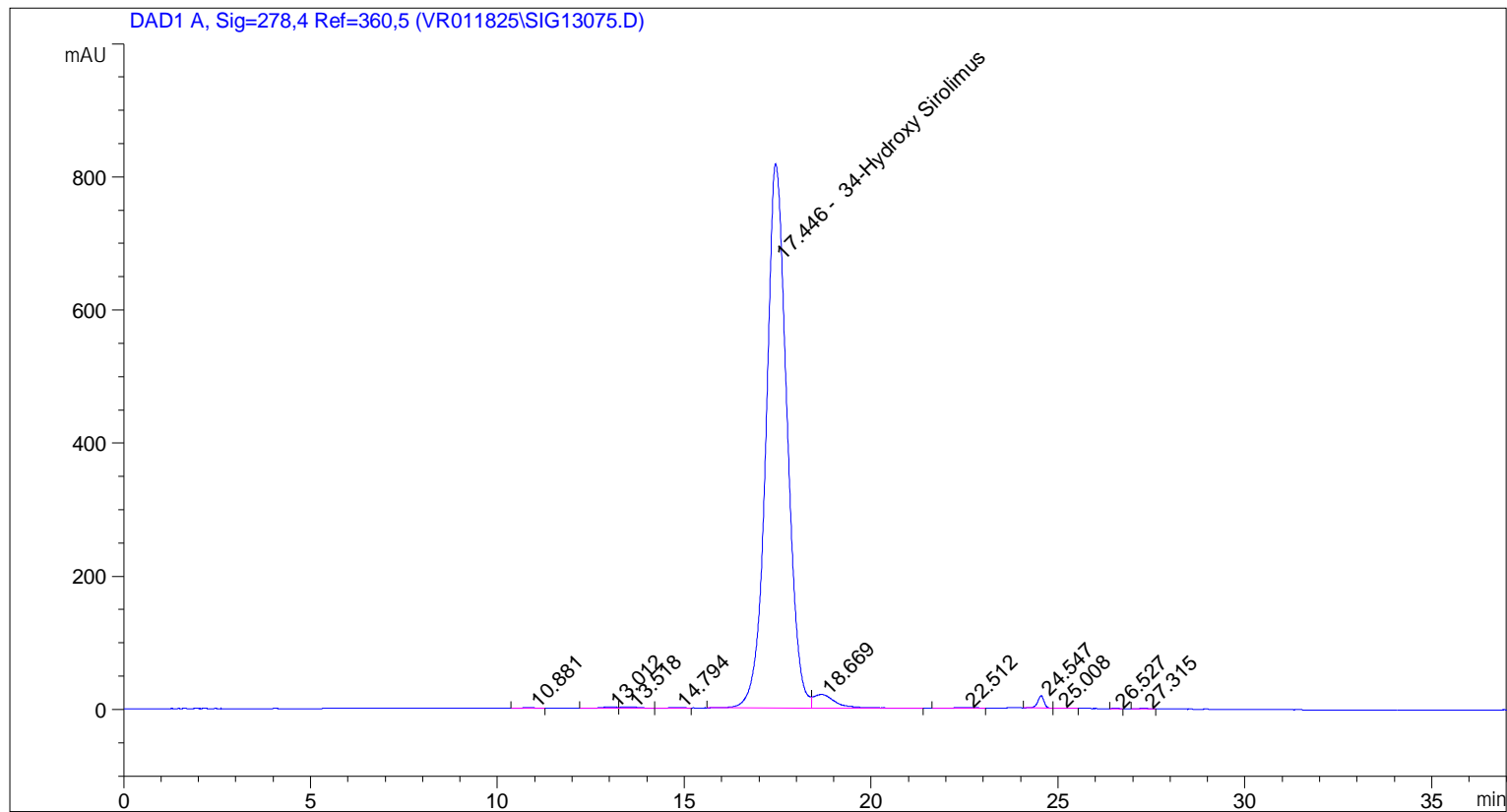
Peak #	RetTime [min]	Type	Width [min]	Area [mAU*s]	Area %	Name
9	24.564	VB	0.1824	195.00188	0.6789	?
10	25.019	BV	0.1405	4.58967	0.0160	?
11	25.252	VB	0.1776	6.57096	0.0229	?
12	26.538	BB	0.1265	7.22485	0.0252	?
13	27.320	BB	0.1768	13.71241	0.0477	?

Totals : 2.87252e4

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

```

=====
Acq. Operator   : vrusu
Acq. Instrument : Instrument 1                Location : Vial 32
Injection Date  : 2/5/2025 9:13:08 AM
                                           Inj Volume : 20.0 µl
Acq. Method     : C:\CHEM32\1\METHODS\VR020425_221.M
Last changed    : 2/5/2025 9:11:57 AM by vrusu
Analysis Method : C:\CHEM32\1\METHODS\VR020525_221PM.M
Last changed     : 2/5/2025 11:08:19 AM
  
```



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

```

Sorted By           :      Signal
Calib. Data Modified :      2/5/2025 11:07:23 AM
Multiplier:         :      1.0000
Dilution:           :      1.0000
Use Multiplier & Dilution Factor with ISTDs
  
```

Signal 1: DAD1 A, Sig=278,4 Ref=360,5

Peak #	RetTime [min]	Type	Width [min]	Area [mAU*s]	Area %	Name
1	10.881	BB	0.3535	28.04476	0.0849	?
2	13.012	BV	0.3284	54.55125	0.1652	?
3	13.518	VB	0.4001	60.98972	0.1847	?
4	14.794	BB	0.3192	11.39984	0.0345	?
5	17.446	BV	0.5774	3.17613e4	96.1839	34-Hydroxy Sirolimus
6	18.669	VB	0.5979	821.26715	2.4871	?
7	22.512	BB	0.4244	27.70090	0.0839	?
8	24.547	BB	0.1821	220.46558	0.6676	?

Sample Name: GR-19-221 spl-2

Peak #	RetTime [min]	Type	Width [min]	Area [mAU*s]	Area %	Name
9	25.008	BB	0.2728	11.28654	0.0342	?
10	26.527	BB	0.1325	8.82607	0.0267	?
11	27.315	BB	0.1731	15.59591	0.0472	?

Totals : 3.30214e4

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