

Name: Delta-5(6)-Norethindrone

Lot#: GR-2-061

Test Date: 05/23/2025 (re-test date: 05/23/2030)

CAS No.: 22933-71-7

MF: C₂₀H₂₆O₂

MW: 298.43

Appearance: White Solid

Purity: 96.5% by HPLC (average of two sample preparations)

¹H-NMR: Conforms

MS-ESI (+) Conforms (shows peak at m/z = 299.22 [M+H]⁺)

Storage Store at -18°C in a dry place away from direct sunlight

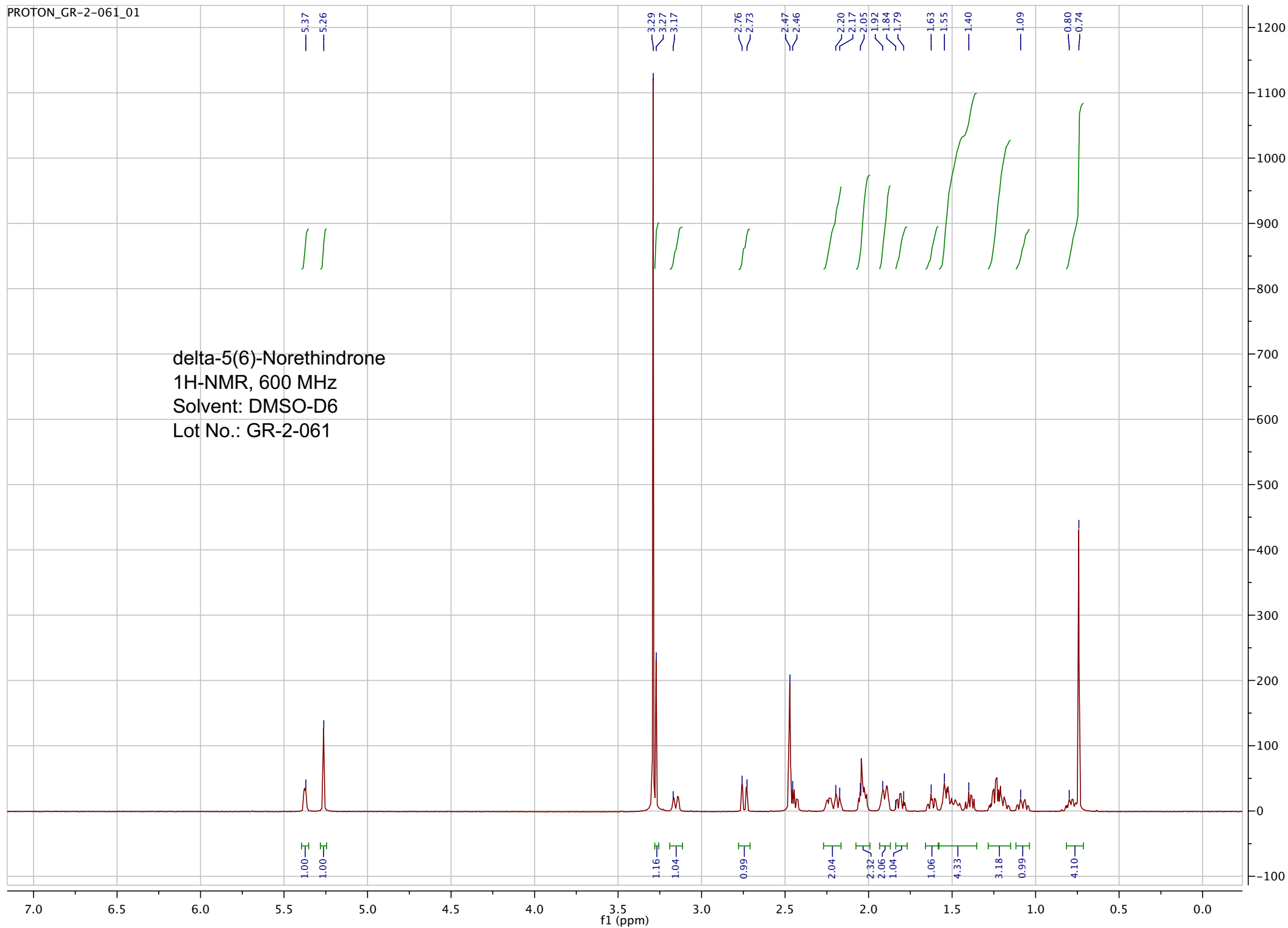
Approved by:

Date: 05/23/2025



Viorica Rusu, QC/QA Manager

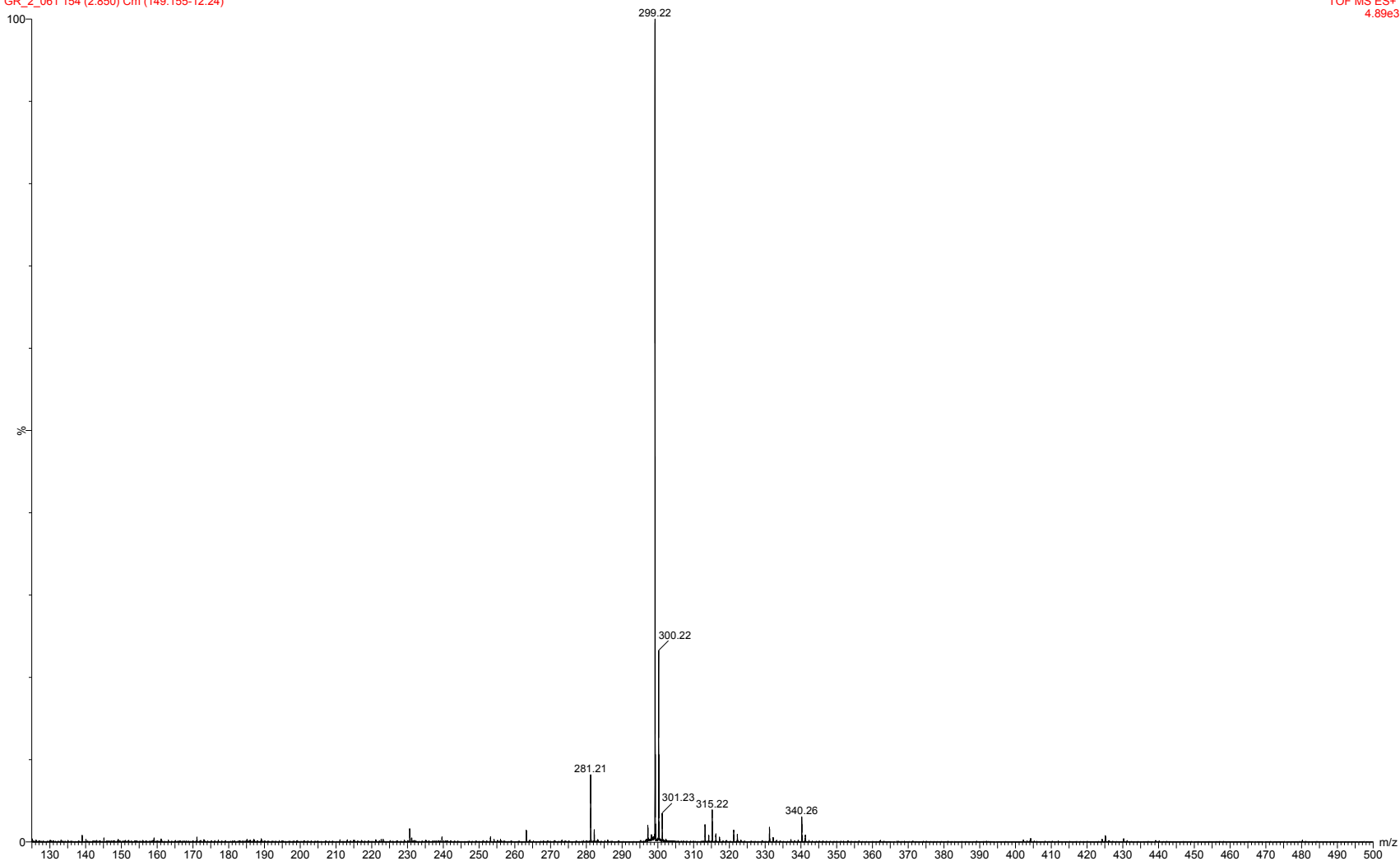
delta-5(6)-Norethindrone
 1H-NMR, 600 MHz
 Solvent: DMSO-D6
 Lot No.: GR-2-061



GR_2_061 154 (2.850) Cm (149:155-12:24)

7.00000000

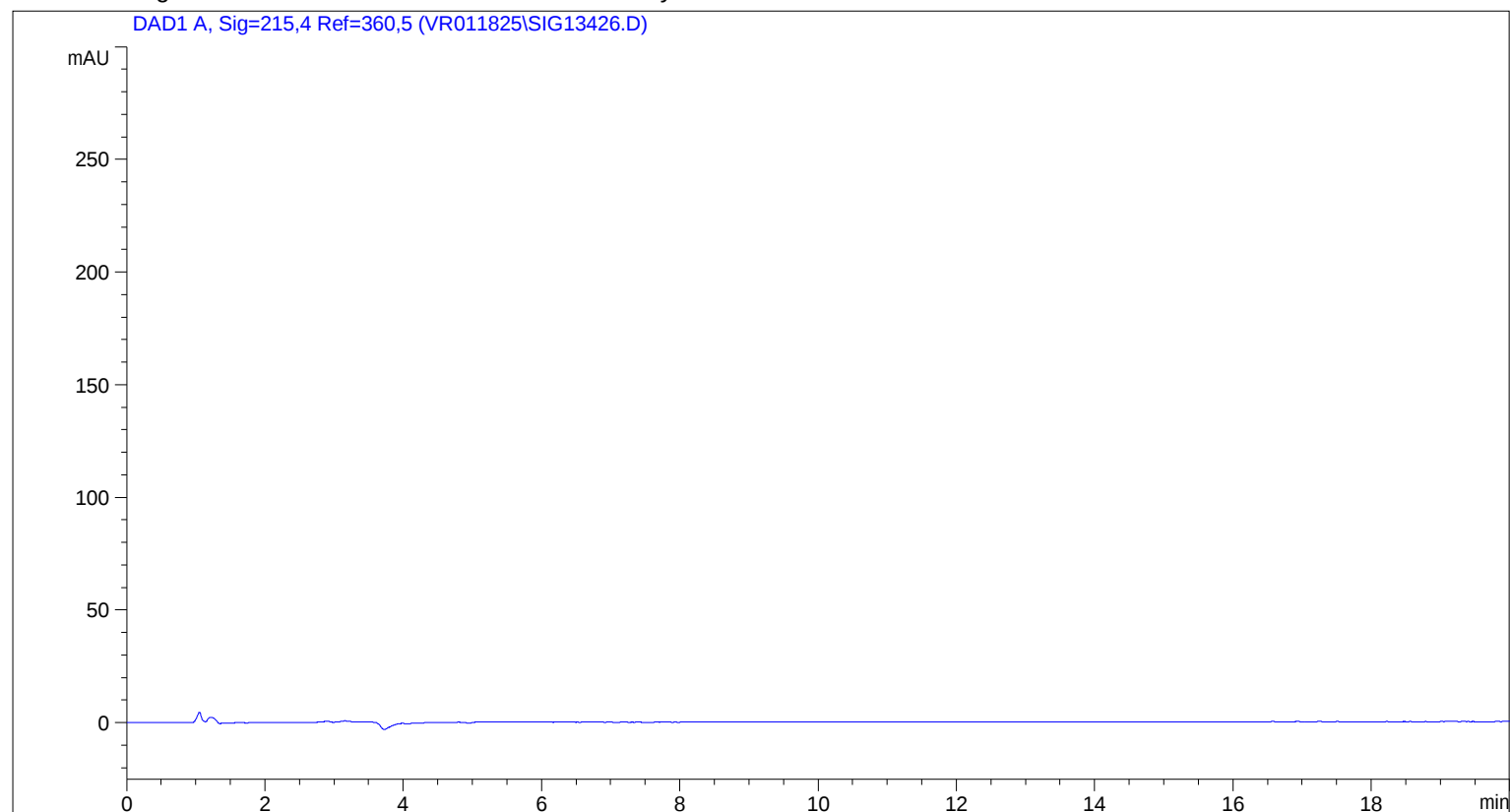
TOF MS ES+
4.89e3



ESI-MS spectrum for sample GR-2-061. Shows monoisotopic [M+H]⁺ mass.

Sample Name: Blank for GR-2-061

```
=====
Acq. Operator   : vrusu
Acq. Instrument : Instrument 1                Location : Vial 30
Injection Date  : 5/23/2025 9:36:49 AM
                                           Inj Volume : 20.0 µl
Acq. Method     : C:\CHEM32\1\METHODS\VR052325_061.M
Last changed    : 5/23/2025 9:35:34 AM by vrusu
Analysis Method : C:\CHEM32\1\METHODS\VR052325_061PM.M
Last changed    : 5/23/2025 11:38:51 AM by vrusu
=====
```



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

```
Sorted By           :      Signal
Calib. Data Modified :      5/23/2025 11:37:32 AM
Multiplier:         :      1.0000
Dilution:           :      1.0000
Use Multiplier & Dilution Factor with ISTDs
```

Signal 1: DAD1 A, Sig=215,4 Ref=360,5

Peak #	RetTime [min]	Type	Width [min]	Area [mAU*s]	Area %	Name
1	9.474		0.0000	0.00000	0.0000	d-5(6)-Norethindrone

Totals : 0.00000

1 Warnings or Errors :

Warning : Calibrated compound(s) not found

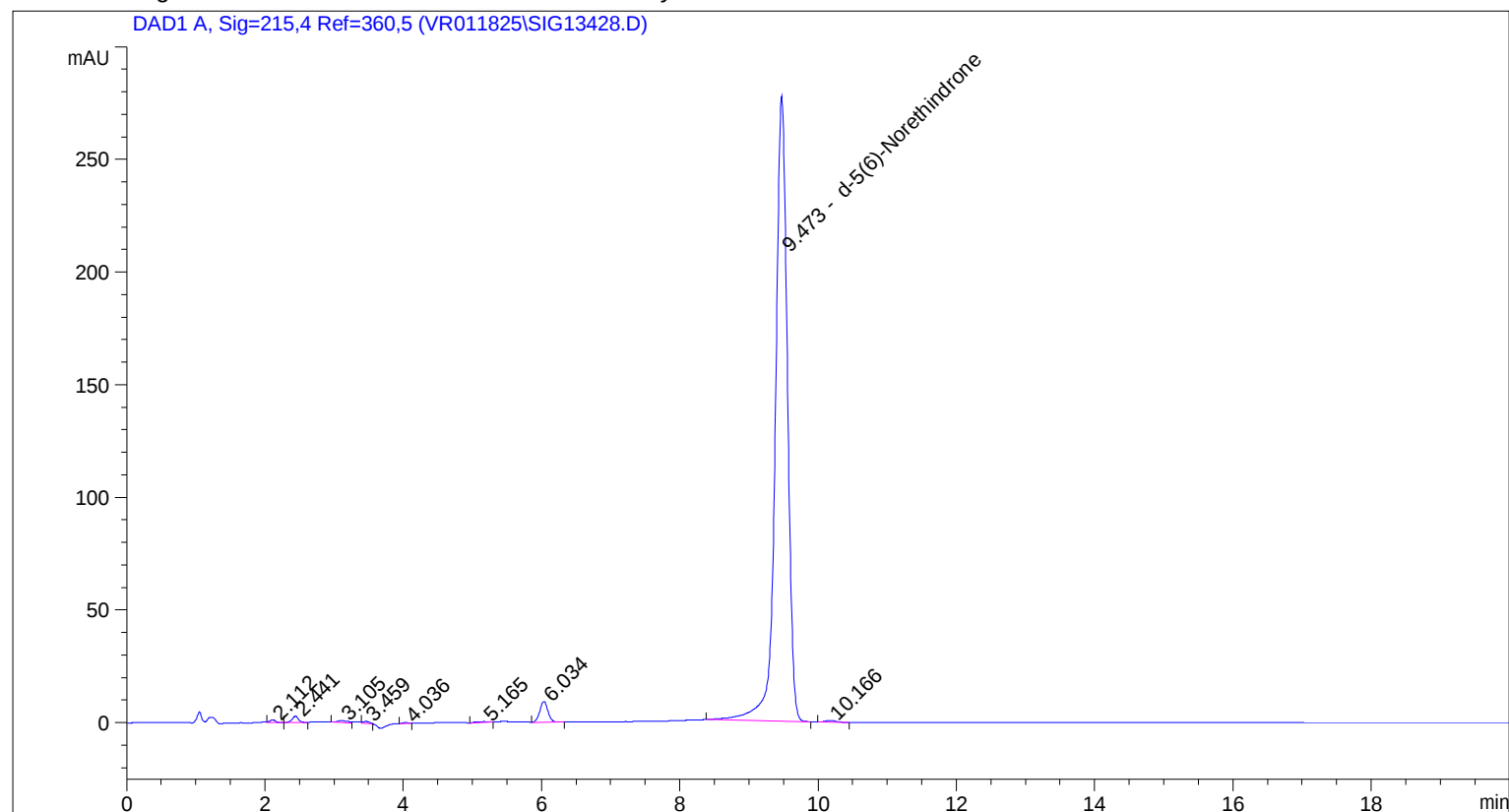
Sample Name: Blank for GR-2-061

=====

*** End of Report ***

Sample Name: GR-2-061 spl-2

```
=====
Acq. Operator   : vrusu
Acq. Instrument : Instrument 1                Location : Vial 32
Injection Date  : 5/23/2025 10:22:33 AM
                                           Inj Volume : 20.0 µl
Acq. Method     : C:\CHEM32\1\METHODS\VR052325_061.M
Last changed    : 5/23/2025 10:21:07 AM by vrusu
Analysis Method : C:\CHEM32\1\METHODS\VR052325_061PM.M
Last changed    : 5/23/2025 11:38:51 AM by vrusu
=====
```



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

```
Sorted By           :      Signal
Calib. Data Modified :      5/23/2025 11:37:32 AM
Multiplier:         :      1.0000
Dilution:           :      1.0000
Use Multiplier & Dilution Factor with ISTDs
```

Signal 1: DAD1 A, Sig=215,4 Ref=360,5

Peak #	RetTime [min]	Type	Width [min]	Area [mAU*s]	Area %	Name
1	2.112	VB	0.0842	7.30949	0.2086	?
2	2.441	BB	0.0991	17.76347	0.5069	?
3	3.105	BV	0.1478	9.57968	0.2733	?
4	3.459	VBA	0.1070	6.23429	0.1779	?
5	4.036	BB	0.0913	1.58680	0.0453	?
6	5.165	BB	0.1581	4.96149	0.1416	?
7	6.034	BB	0.1264	74.57762	2.1280	?
8	9.473	BB	0.1859	3373.98486	96.2730	d-5(6)-Norethindrone

Sample Name: GR-2-061 spl-2

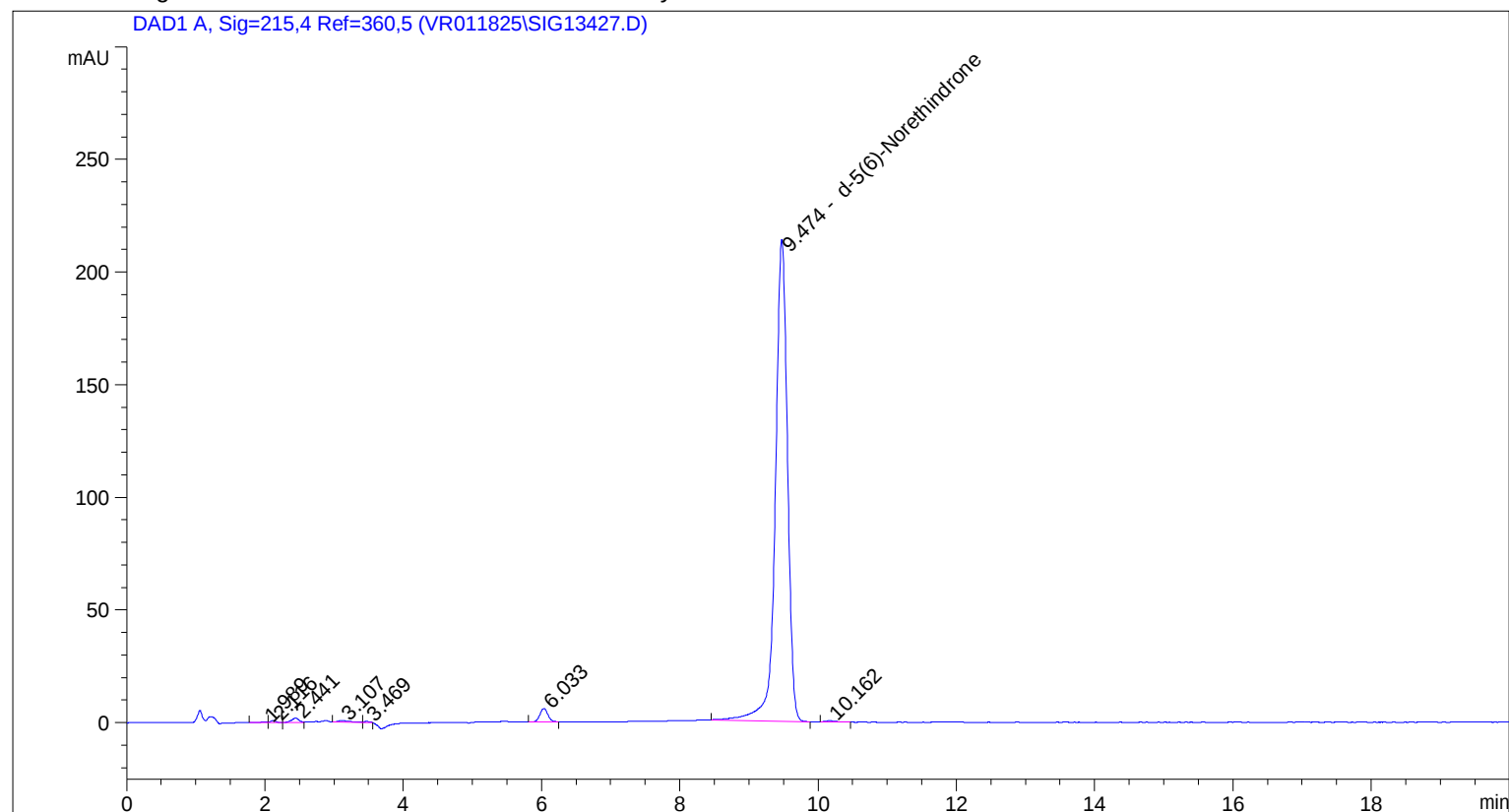
Peak #	RetTime [min]	Type	Width [min]	Area [mAU*s]	Area %	Name
9	10.166	BB	0.1454	8.60424	0.2455	?

Totals : 3504.60194

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

Sample Name: GR-2-061

```
=====
Acq. Operator   : vrusu
Acq. Instrument : Instrument 1                Location : Vial 31
Injection Date  : 5/23/2025 9:58:59 AM
                                           Inj Volume : 20.0 µl
Acq. Method     : C:\CHEM32\1\METHODS\VR052325_061.M
Last changed    : 5/23/2025 9:57:41 AM by vrusu
Analysis Method : C:\CHEM32\1\METHODS\VR052325_061PM.M
Last changed    : 5/23/2025 11:38:51 AM by vrusu
=====
```



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

```
Sorted By           :      Signal
Calib. Data Modified :      5/23/2025 11:37:32 AM
Multiplier:         :      1.0000
Dilution:           :      1.0000
Use Multiplier & Dilution Factor with ISTDs
```

Signal 1: DAD1 A, Sig=215,4 Ref=360,5

Peak #	RetTime [min]	Type	Width [min]	Area [mAU*s]	Area %	Name
1	1.989	BV	0.1032	3.02202	0.1125	?
2	2.116	VB	0.0830	4.74991	0.1768	?
3	2.441	BV	0.1061	13.61584	0.5068	?
4	3.107	BV	0.1739	9.76105	0.3633	?
5	3.469	VBA	0.0867	2.91760	0.1086	?
6	6.033	BB	0.1239	47.57620	1.7709	?
7	9.474	BB	0.1857	2600.05127	96.7825	d-5(6)-Norethindrone
8	10.162	BB	0.1270	4.79612	0.1785	?

Sample Name: GR-2-061

Peak #	RetTime [min]	Type	Width [min]	Area [mAU*s]	Area %	Name
----- ----- ----- ----- ----- ----- -----						
Totals :				2686.49001		

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