

Name: 6,7-Dehydro Norethindrone Acetate

Lot#: GR-20-013

Test Date: 10/31/2025 (re-test date: 10/31/2030)

CAS No.: 106765-04-2

MF: C₂₂H₂₆O₃

MW: 338.45

Appearance: Beige solid

Purity: 97.5% by HPLC (average of two sample preparations)

¹H-NMR: Conforms (contains a trace of DMF)

MS-DART (+) Conforms (shows peaks at m/z = 339.20 [M+H]⁺)

Storage Store at 0-8°C in a dry place away from direct sunlight

Approved by:

Date: 11/04/2025



Viorica Rusu, QC/QA Manager

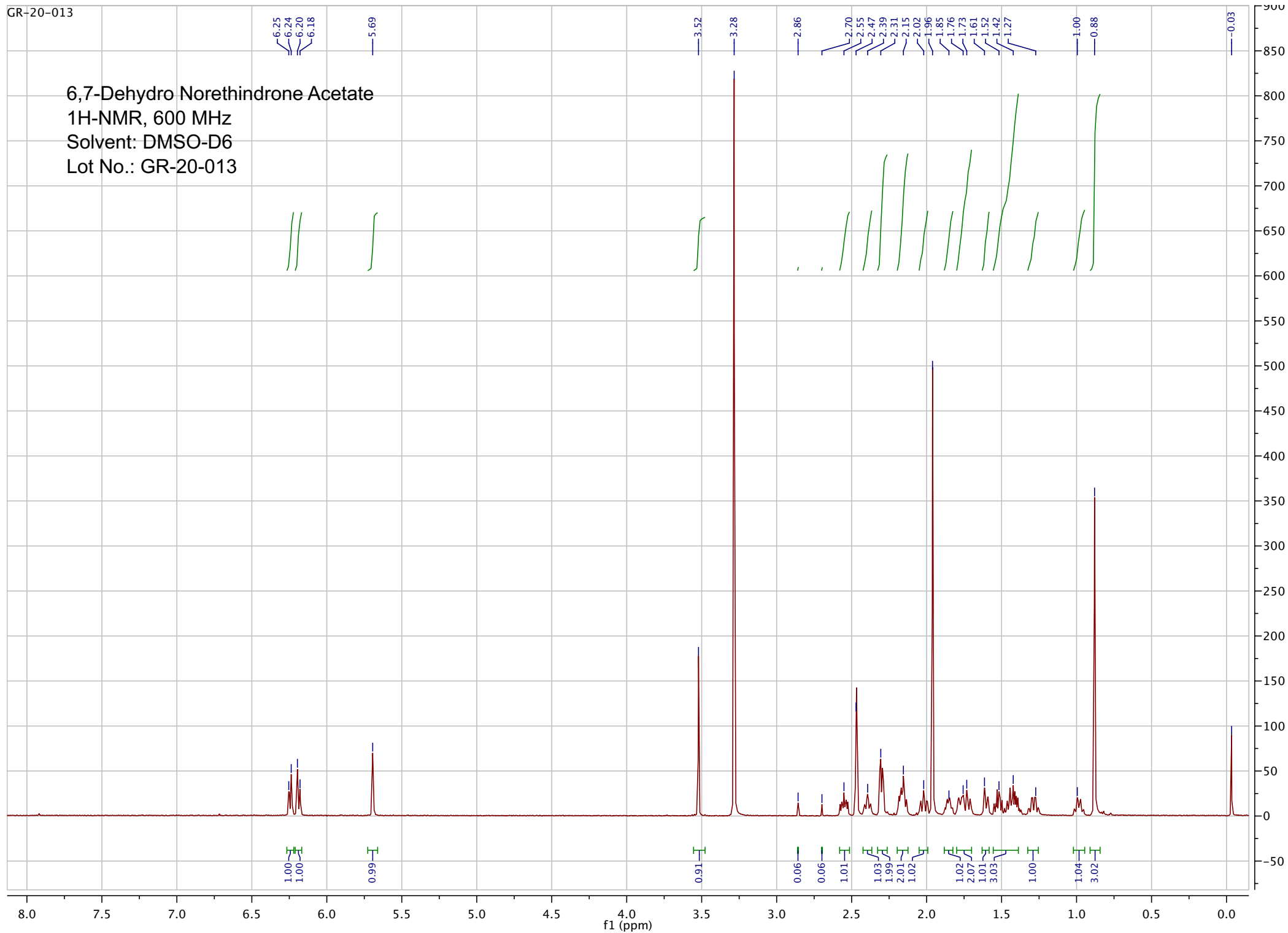
GR-20-013

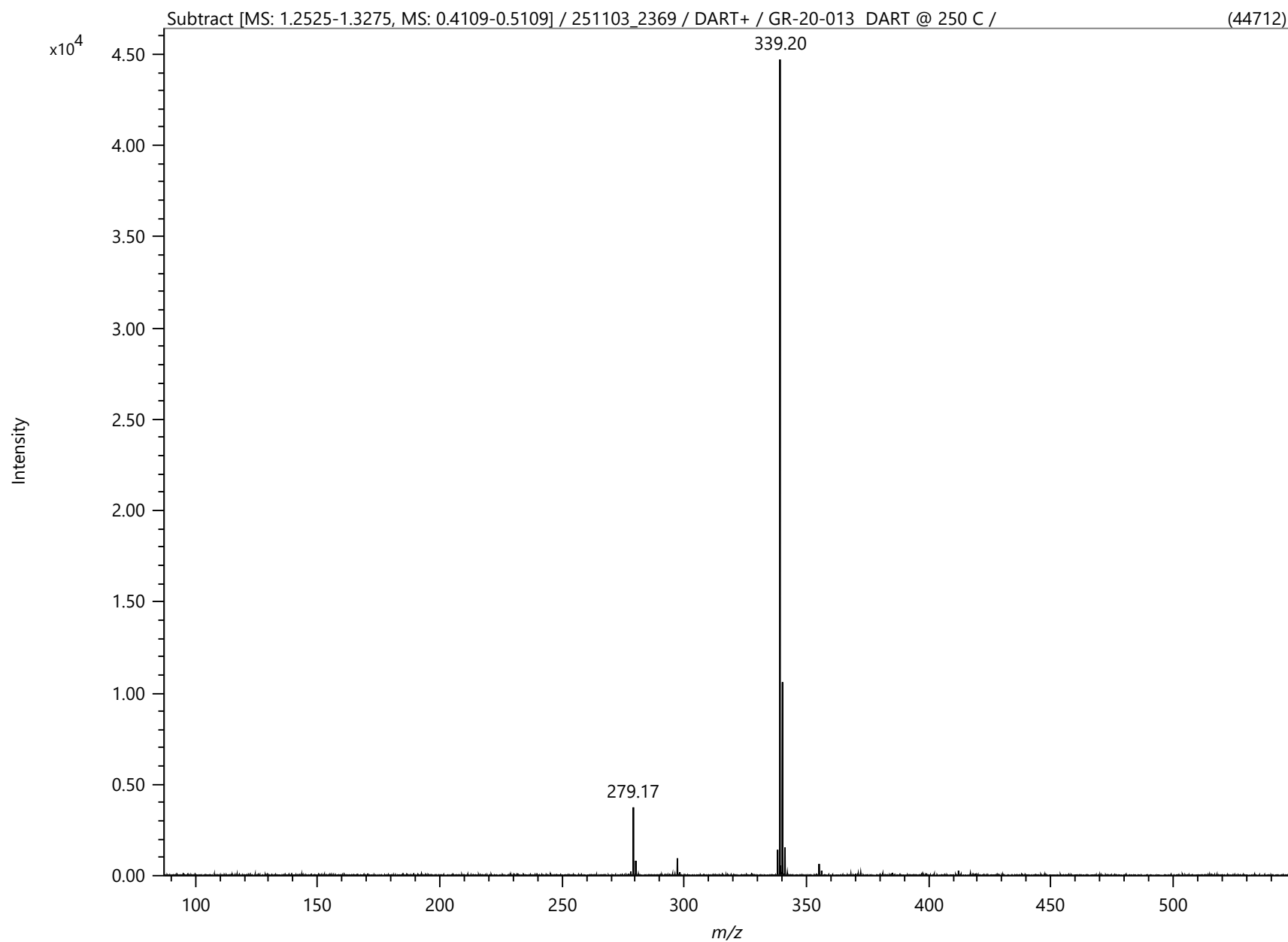
6,7-Dehydro Norethindrone Acetate

1H-NMR, 600 MHz

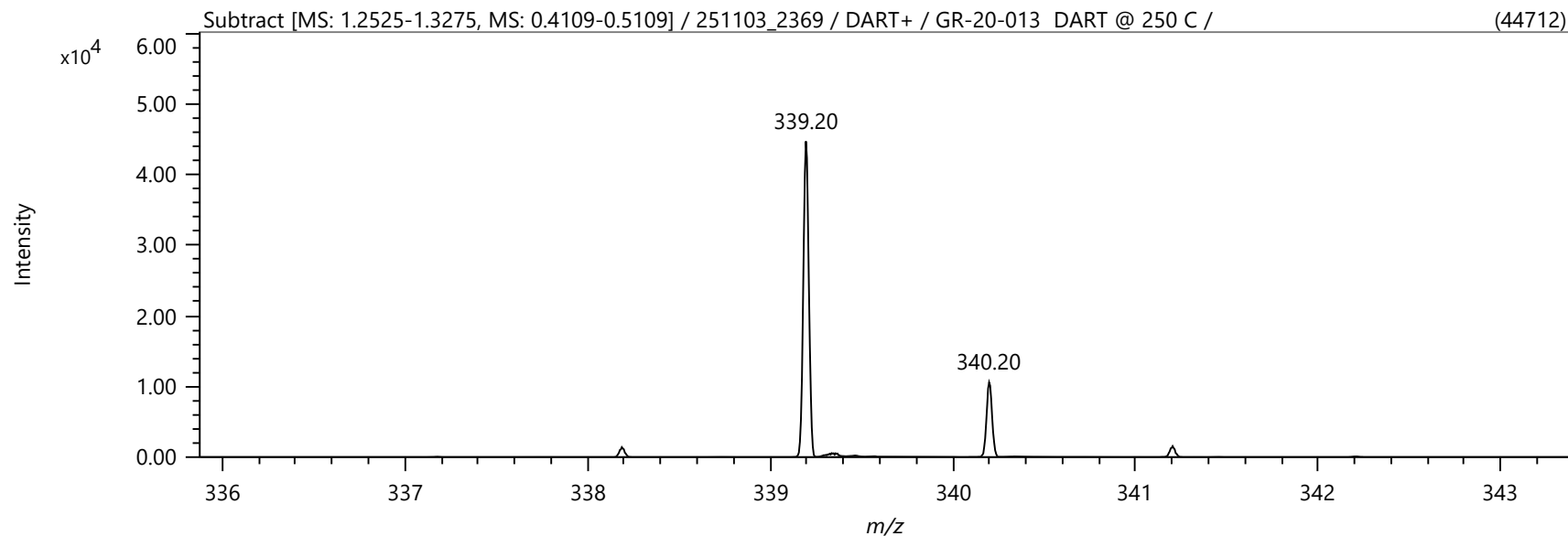
Solvent: DMSO-D6

Lot No.: GR-20-013





Spectrum



Elemental Composition

Parameters

Tolerance: ± 5.00 mDa
 Electron: Even
 Charge: +1
 DBE: -1.5 - 100.0

Elements Set 1:

Symbol	C	H	O	N
Min	0	0	0	0
Max	100	100	20	10

Results

Mass	Intensity	Formula	Calculated Mass	Mass Difference [mDa]	Mass Difference [ppm]	DBE
339.19649	44711.66	C22 H27 O3	339.19547	1.02	3.00	9.5
		C11 H27 N6 O6	339.19866	-2.17	-6.39	1.5
		C12 H23 N10 O2	339.20000	-3.51	-10.34	6.5
		C18 H23 N6 O	339.19279	3.70	10.92	10.5
		C15 H31 O8	339.20134	-4.85	-14.31	0.5

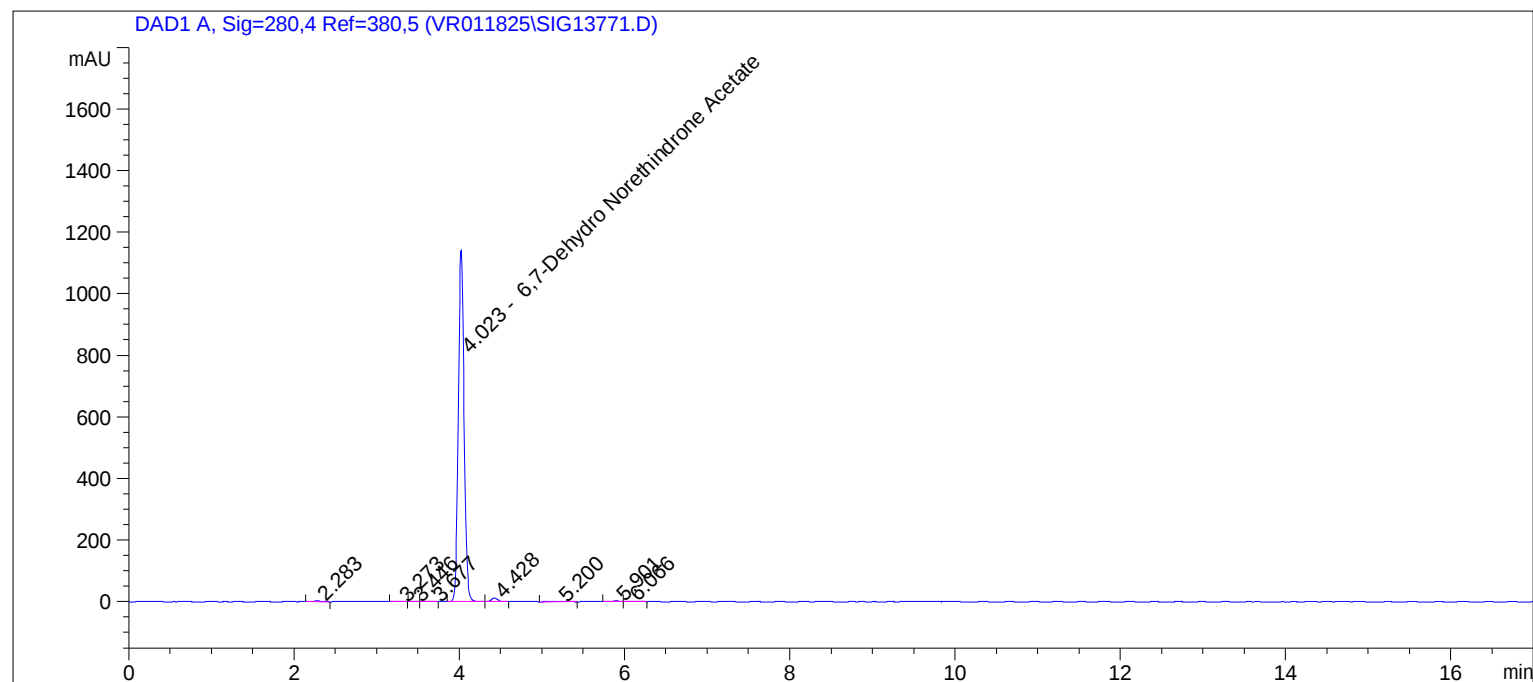
Sample Name: GR-20-013

```

=====
Acq. Operator   : vrusu
Acq. Instrument : Instrument 1                      Location : Vial 89
Injection Date  : 10/31/2025 8:19:54 AM
                                           Inj Volume : 5.0 µl

Acq. Method     : C:\CHEM32\1\METHODS\VR103125_013.M
Last changed    : 10/31/2025 8:18:49 AM by vrusu
Analysis Method : C:\CHEM32\1\METHODS\VR103125_013PM.M
Last changed    : 10/31/2025 10:31:44 AM by vrusu
=====

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

```

```

Sorted By           :      Signal
Calib. Data Modified :      10/31/2025 10:30:40 AM
Multiplier:         :      1.0000
Dilution:           :      1.0000
Use Multiplier & Dilution Factor with ISTDs

```

Signal 1: DAD1 A, Sig=280,4 Ref=380,5

Peak #	RetTime [min]	Type	Width [min]	Area [mAU*s]	Area %	Name
1	2.283	BB	0.0679	19.57009	0.3451	?
2	3.273	BB	0.0734	2.67096	0.0471	?
3	3.446	BB	0.0641	2.62332	0.0463	?
4	3.677	BB	0.1112	6.31274	0.1113	?
5	4.023	BV	0.0764	5533.00488	97.5576	6,7-Dehydro Norethindrone Acetate
6	4.428	VB	0.0822	65.57558	1.1562	?
7	5.200	BB	0.1144	10.50458	0.1852	?
8	5.901	BV	0.1034	16.67466	0.2940	?
9	6.066	VB	0.1124	14.58979	0.2572	?

Totals : 5671.52659

Sample Name: GR-20-013

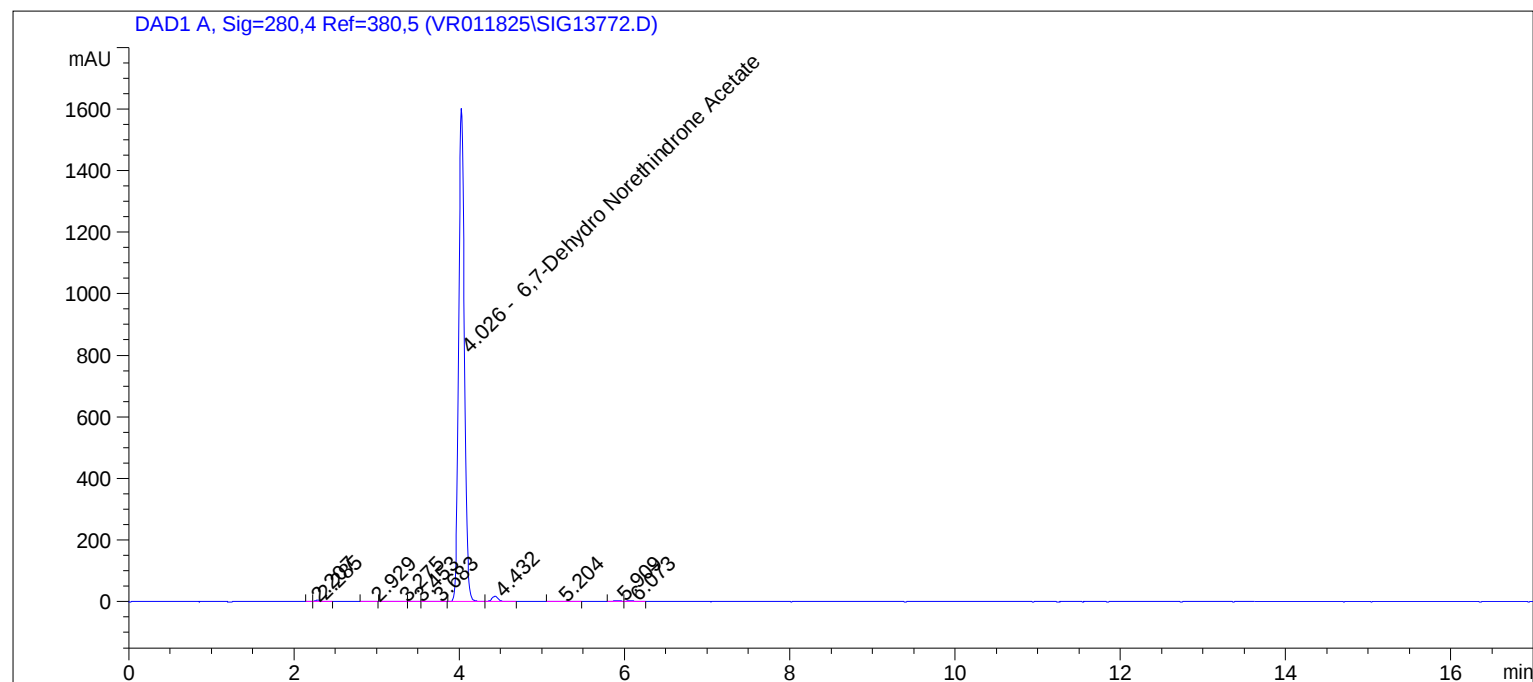
```
=====
Acq. Operator   : vrusu
Acq. Instrument : Instrument 1                Location : Vial 89
Injection Date  : 10/31/2025 8:19:54 AM
                                           Inj Volume : 5.0 µl
Acq. Method     : C:\CHEM32\1\METHODS\VR103125_013.M
Last changed    : 10/31/2025 8:18:49 AM by vrusu
Analysis Method : C:\CHEM32\1\METHODS\VR103125_013PM.M
Last changed    : 10/31/2025 10:31:44 AM by vrusu
=====
```

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

Sample Name: GR-20-013 spl-2

```
=====
Acq. Operator   : vrusu
Acq. Instrument : Instrument 1                      Location : Vial 90
Injection Date  : 10/31/2025 8:40:54 AM
                                           Inj Volume : 5.0 µl

Acq. Method     : C:\CHEM32\1\METHODS\VR103125_013.M
Last changed    : 10/31/2025 8:39:39 AM by vrusu
Analysis Method : C:\CHEM32\1\METHODS\VR103125_013PM.M
Last changed    : 10/31/2025 10:31:44 AM by vrusu
=====
```



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

```
Sorted By           :      Signal
Calib. Data Modified :      10/31/2025 10:30:40 AM
Multiplier:         :      1.0000
Dilution:           :      1.0000
Use Multiplier & Dilution Factor with ISTDs
```

Signal 1: DAD1 A, Sig=280,4 Ref=380,5

Peak #	RetTime [min]	Type	Width [min]	Area [mAU*s]	Area %	Name
1	2.207	BV	0.0409	1.81852	0.0227	?
2	2.285	VB	0.0592	22.05872	0.2754	?
3	2.929	BB	0.0716	2.83735	0.0354	?
4	3.275	BV	0.0937	5.32192	0.0664	?
5	3.453	VB	0.0666	4.81354	0.0601	?
6	3.683	BB	0.1294	14.92034	0.1863	?
7	4.026	BV	0.0749	7808.52832	97.4947	6,7-Dehydro Norethindrone Acetate
8	4.432	VB	0.0823	93.10143	1.1624	?
9	5.204	BB	0.1001	11.93972	0.1491	?
10	5.909	BV	0.0968	22.61683	0.2824	?
11	6.073	VB	0.1100	21.22978	0.2651	?

Sample Name: GR-20-013 spl-2

```
=====
Acq. Operator   : vrusu
Acq. Instrument : Instrument 1                Location : Vial 90
Injection Date  : 10/31/2025 8:40:54 AM
                                           Inj Volume : 5.0 µl
Acq. Method     : C:\CHEM32\1\METHODS\VR103125_013.M
Last changed    : 10/31/2025 8:39:39 AM by vrusu
Analysis Method : C:\CHEM32\1\METHODS\VR103125_013PM.M
Last changed    : 10/31/2025 10:31:44 AM by vrusu
=====
```

Peak #	RetTime [min]	Type	Width [min]	Area [mAU*s]	Area %	Name
----- ----- ----- ----- ----- ----- -----						
Totals :				8009.18647		

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*** End of Report ***
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