

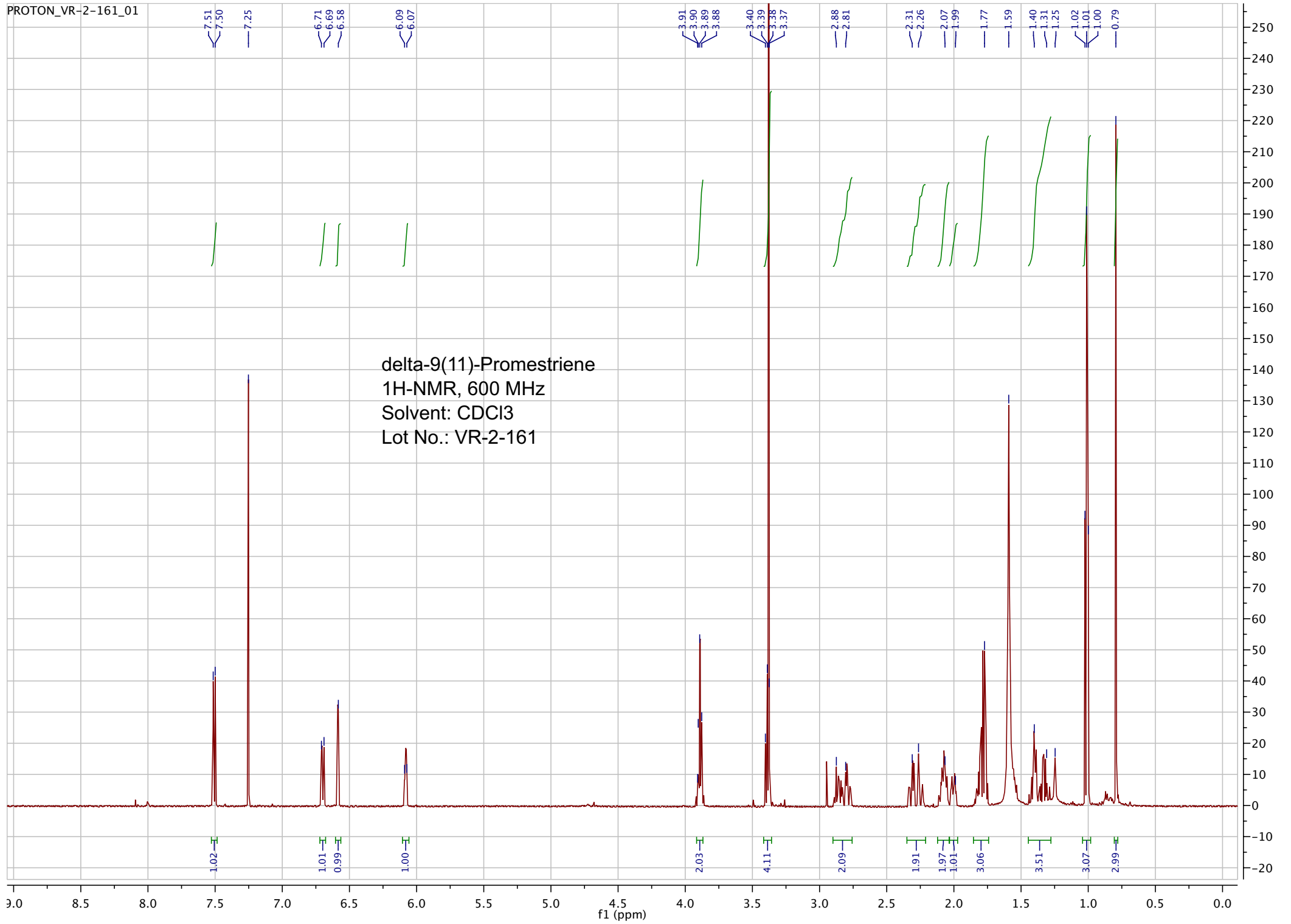
**Name:** delta-9(11)-Promestriene  
**Lot#:** VR-2-161  
**Test Date:** 02/28/2023 (re-test date: 02/28/2028)  
**CAS No.:** NA  
**MF:** C<sub>22</sub>H<sub>30</sub>O<sub>2</sub>  
**MW:** 326.46  
**Appearance:** Off-White solid  
**Purity:** 99.6% by HPLC (average of two sample preparations)  
**<sup>1</sup>H-NMR:** Conforms  
**MS-ESI (+)** Conforms (shows peaks at m/z = 327.26 [M+H]<sup>+</sup>)  
**Storage** Store at 0-5°C in a dry place away from direct sunlight

Approved by:

Date: 02/28/2023



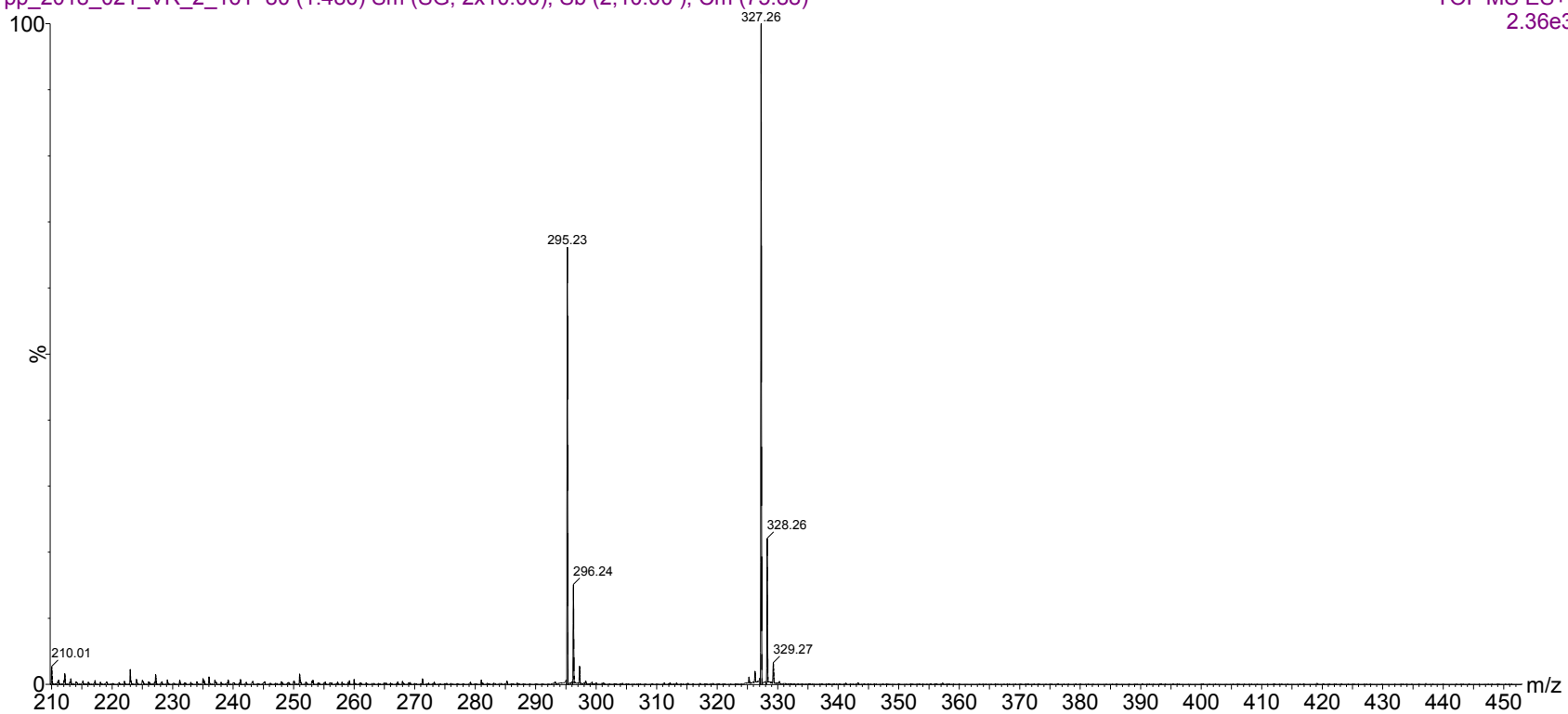
Viorica Rusu, QC/QA Manager



26-Feb-2018, 17:08:22

TOF MS ES+  
2.36e3

pp\_2018\_021\_VR\_2\_161 80 (1.480) Sm (SG, 2x10.00); Sb (2,10.00 ); Cm (75:88)

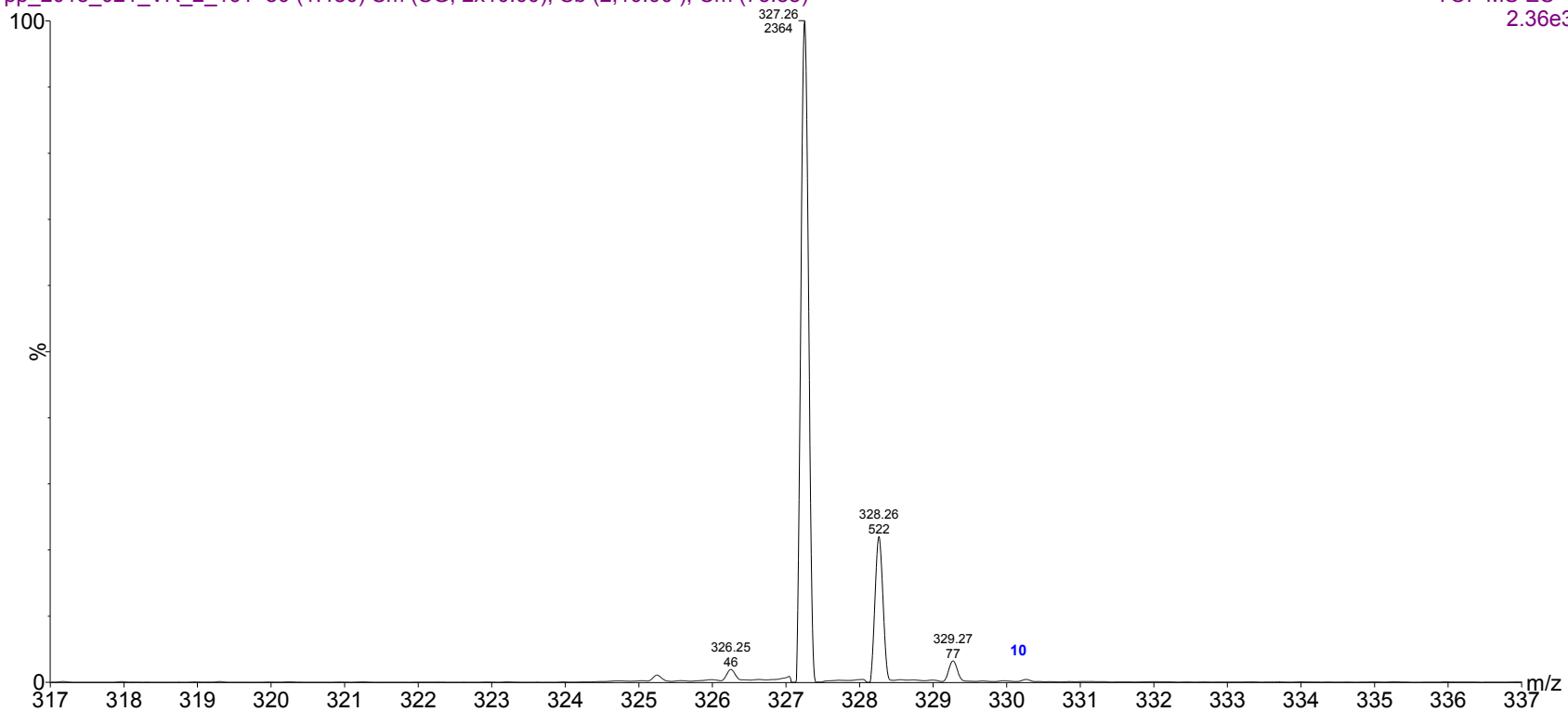


ESI-MS spectrum for sample VR-2-161. Shows monoisotopic  $[M+H]^+$  mass.

26-Feb-2018, 17:08:22

TOF MS ES+  
2.36e3

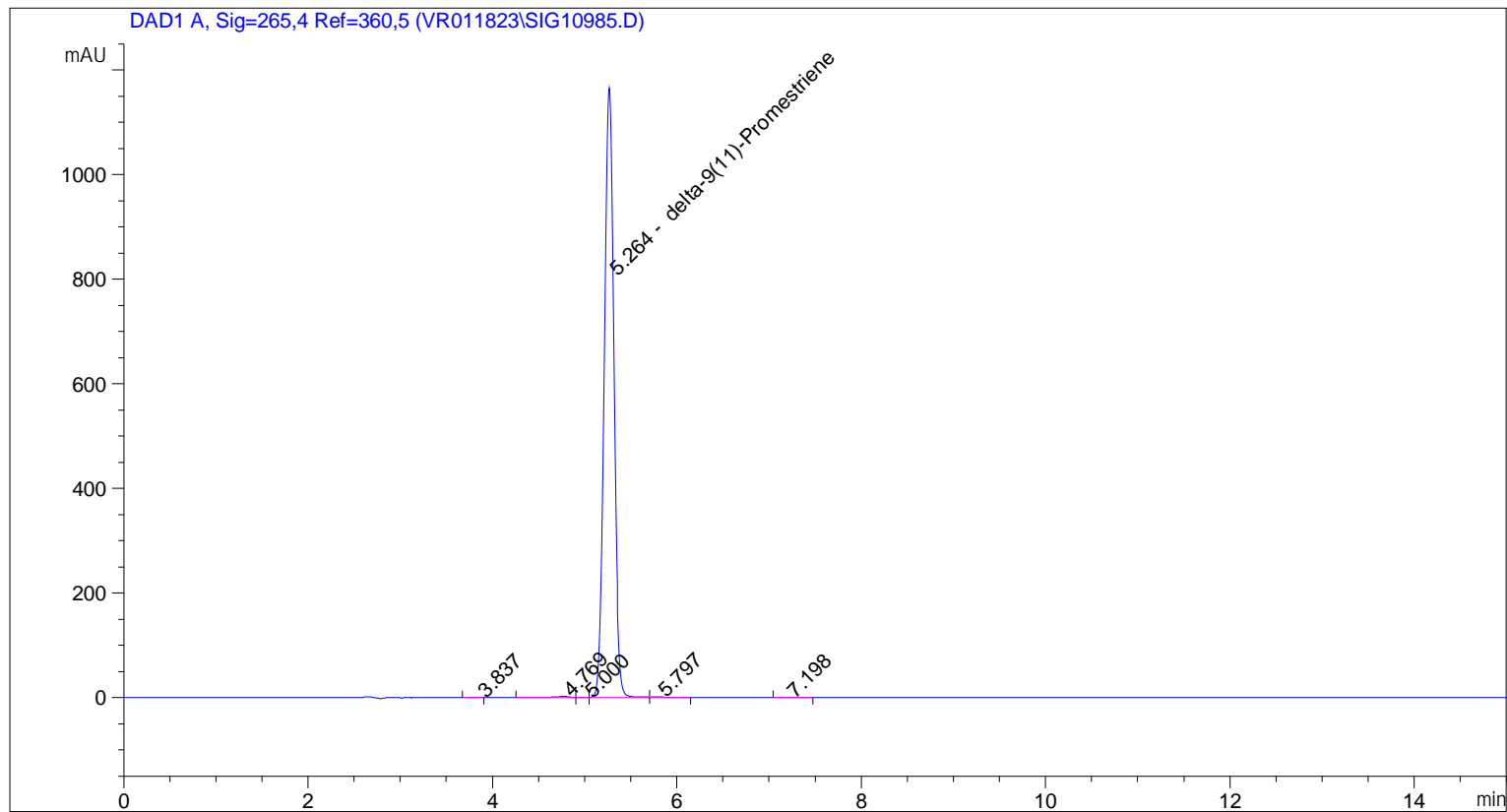
pp\_2018\_021\_VR\_2\_161 80 (1.480) Sm (SG, 2x10.00); Sb (2,10.00 ); Cm (75:88)



Expansion of above with intensity labels.

```

=====
Acq. Operator   : vrusu
Acq. Instrument : Instrument 1                Location : Vial 90
Injection Date  : 2/28/2023 1:17:34 PM
                                           Inj Volume : 5.0 µl
Acq. Method     : C:\CHEM32\1\METHODS\VR022823_161.M
Last changed    : 2/28/2023 1:16:32 PM by vrusu
Analysis Method : C:\CHEM32\1\METHODS\VR022823_161PM.M
Last changed    : 2/28/2023 2:12:26 PM by vrusu
  
```



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

```

Sorted By           :      Signal
Calib. Data Modified :      2/28/2023 1:57:54 PM
Multiplier:         :      1.0000
Dilution:           :      1.0000
Use Multiplier & Dilution Factor with ISTDs
  
```

Signal 1: DAD1 A, Sig=265,4 Ref=360,5

Peak #	RetTime [min]	Type	Width [min]	Area [mAU*s]	Area %	Name
1	3.837	BB	0.0915	1.97004	0.0235	?
2	4.769	BB	0.1302	18.84294	0.2246	?
3	5.000	BV	0.0832	1.57477	0.0188	?
4	5.264	VV	0.1117	8356.76270	99.6114	delta-9(11)-Promestriene
5	5.797	VB	0.1582	7.00915	0.0835	?
6	7.198	BB	0.1370	3.20110	0.0382	?

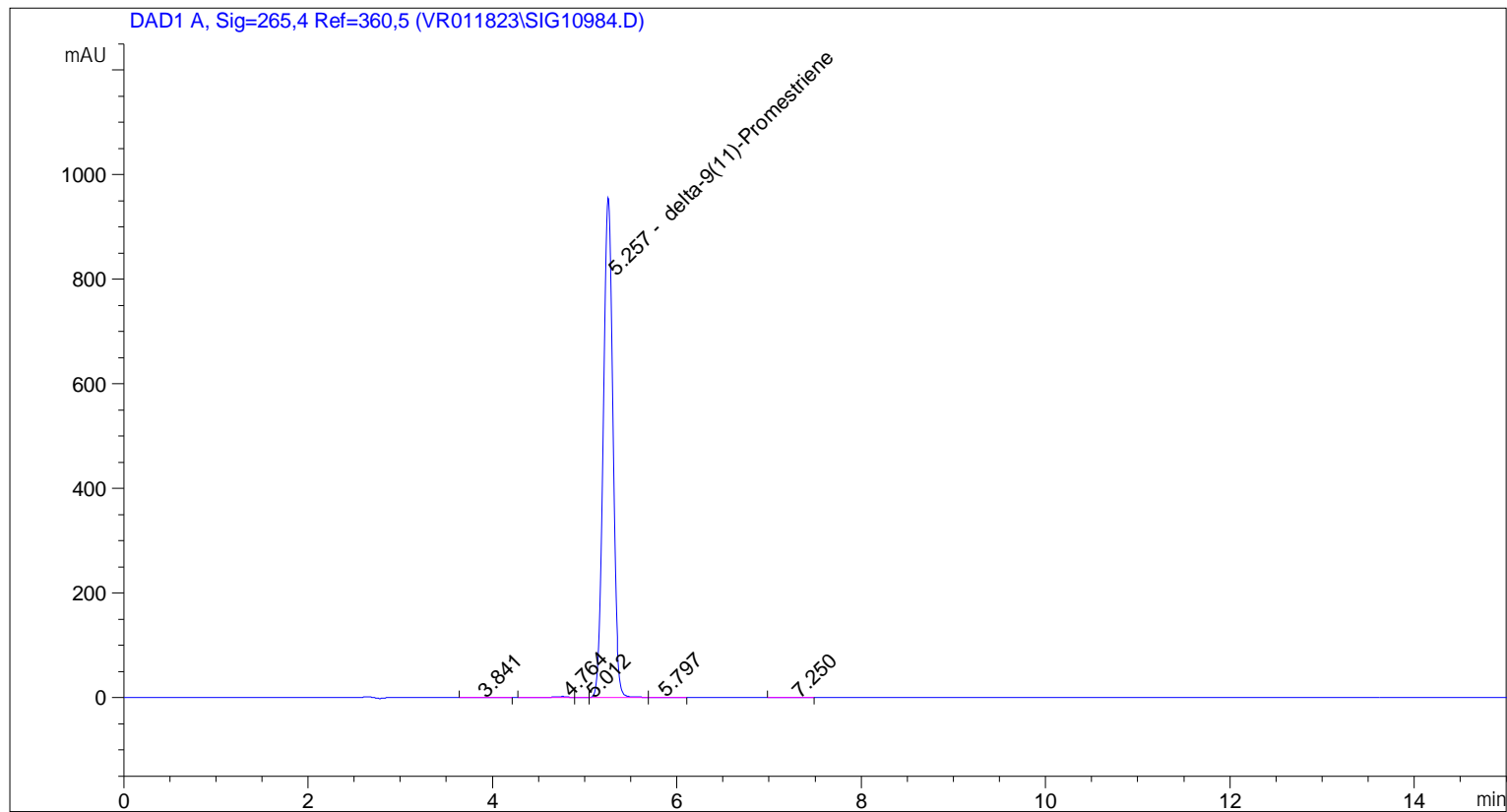
Totals : 8389.36070

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\*\*\* End of Report \*\*\*

```

=====
Acq. Operator   : vrusu
Acq. Instrument : Instrument 1                Location : Vial 89
Injection Date  : 2/28/2023 12:53:16 PM
                                           Inj Volume : 5.0 µl
Acq. Method     : C:\CHEM32\1\METHODS\VR022823_161.M
Last changed    : 2/28/2023 12:52:11 PM by vrusu
Analysis Method : C:\CHEM32\1\METHODS\VR022823_161PM.M
Last changed    : 2/28/2023 2:12:26 PM by vrusu
  
```



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

```

Sorted By      : Signal
Calib. Data Modified : 2/28/2023 1:57:54 PM
Multiplier:    : 1.0000
Dilution:      : 1.0000
Use Multiplier & Dilution Factor with ISTDs
  
```

Signal 1: DAD1 A, Sig=265,4 Ref=360,5

Peak #	RetTime [min]	Type	Width [min]	Area [mAU*s]	Area %	Name
1	3.841	BB	0.1615	5.35803	0.0779	?
2	4.764	BB	0.1424	17.69479	0.2574	?
3	5.012	BV	0.0735	1.59305	0.0232	?
4	5.257	VV	0.1115	6841.95703	99.5180	delta-9(11)-Promestriene
5	5.797	VB	0.1438	5.32773	0.0775	?
6	7.250	BB	0.1574	3.16343	0.0460	?

Totals : 6875.09406

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\*\*\* End of Report \*\*\*