

Name:	Desonide-16-ene (21-Hydroxy-16-delta-Prednisolone)
Lot#:	GR-16-237
Test Date:	11/19/2021 (re-test date: 11/19/2026)
CAS No.:	3103-17-1
MF:	C ₂₁ H ₂₆ O ₄
MW:	342.43
Appearance:	White solid
Purity:	98.9% by HPLC (average of two sample preparations)
¹H-NMR:	Conforms
MS-ESI (+)	Conforms (shows peaks at m/z = 343.15 [M+H] ⁺)
Storage	Store at -18°C in a dry place away from direct sunlight

Approved by:

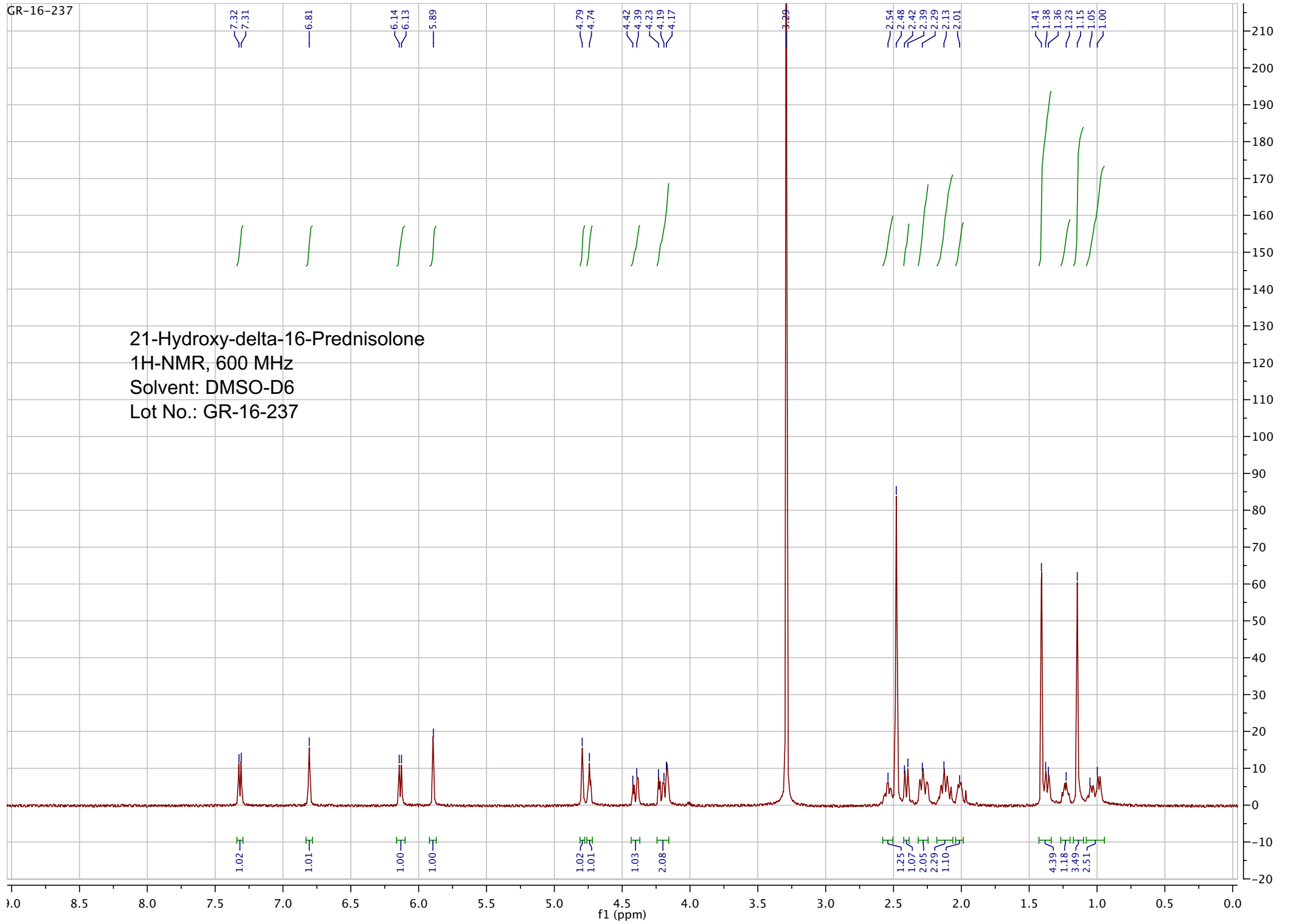
Date: 11/25/2021



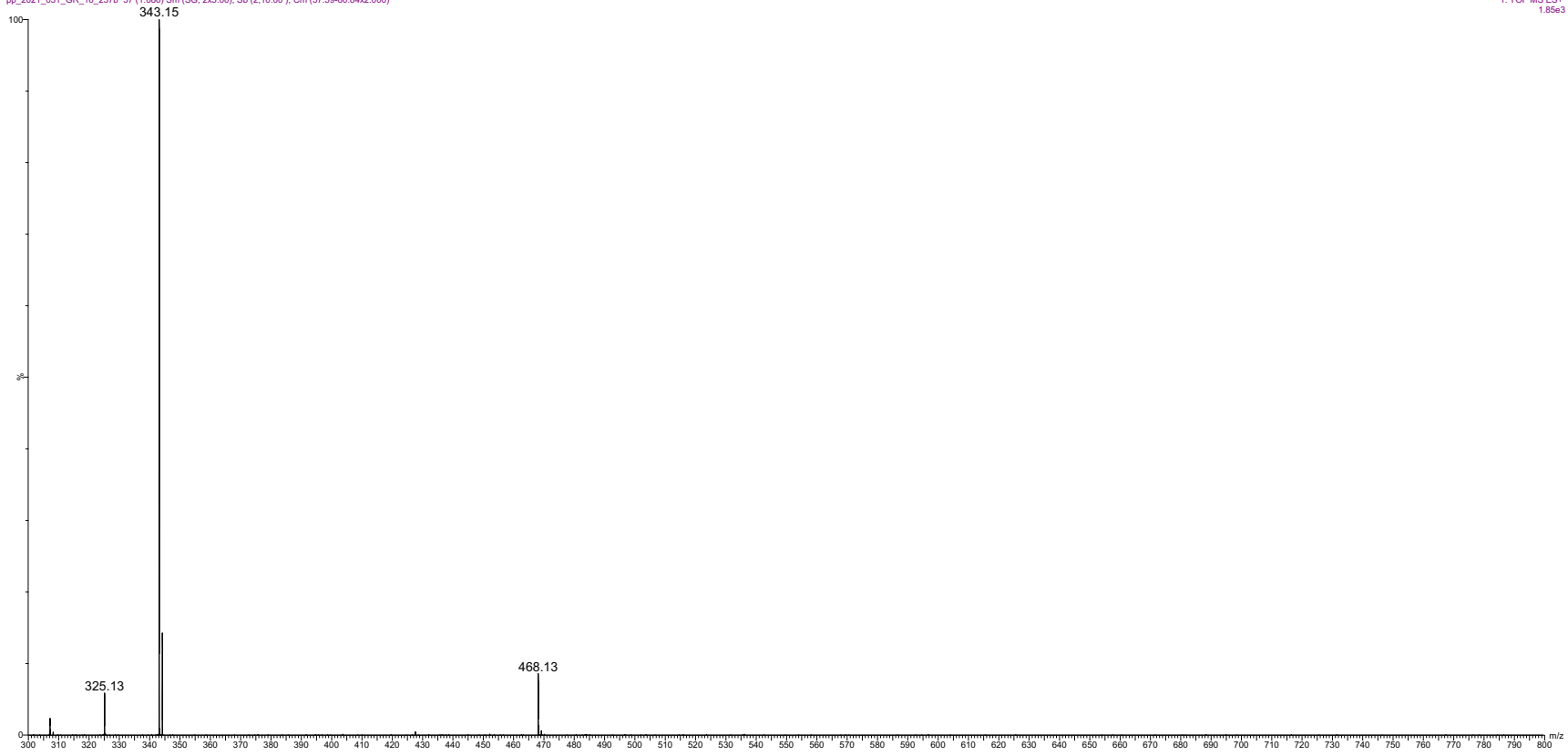
Viorica Rusu, QC/QA Manager

GR-16-237

21-Hydroxy-delta-16-Prednisolone
1H-NMR, 600 MHz
Solvent: DMSO-D6
Lot No.: GR-16-237



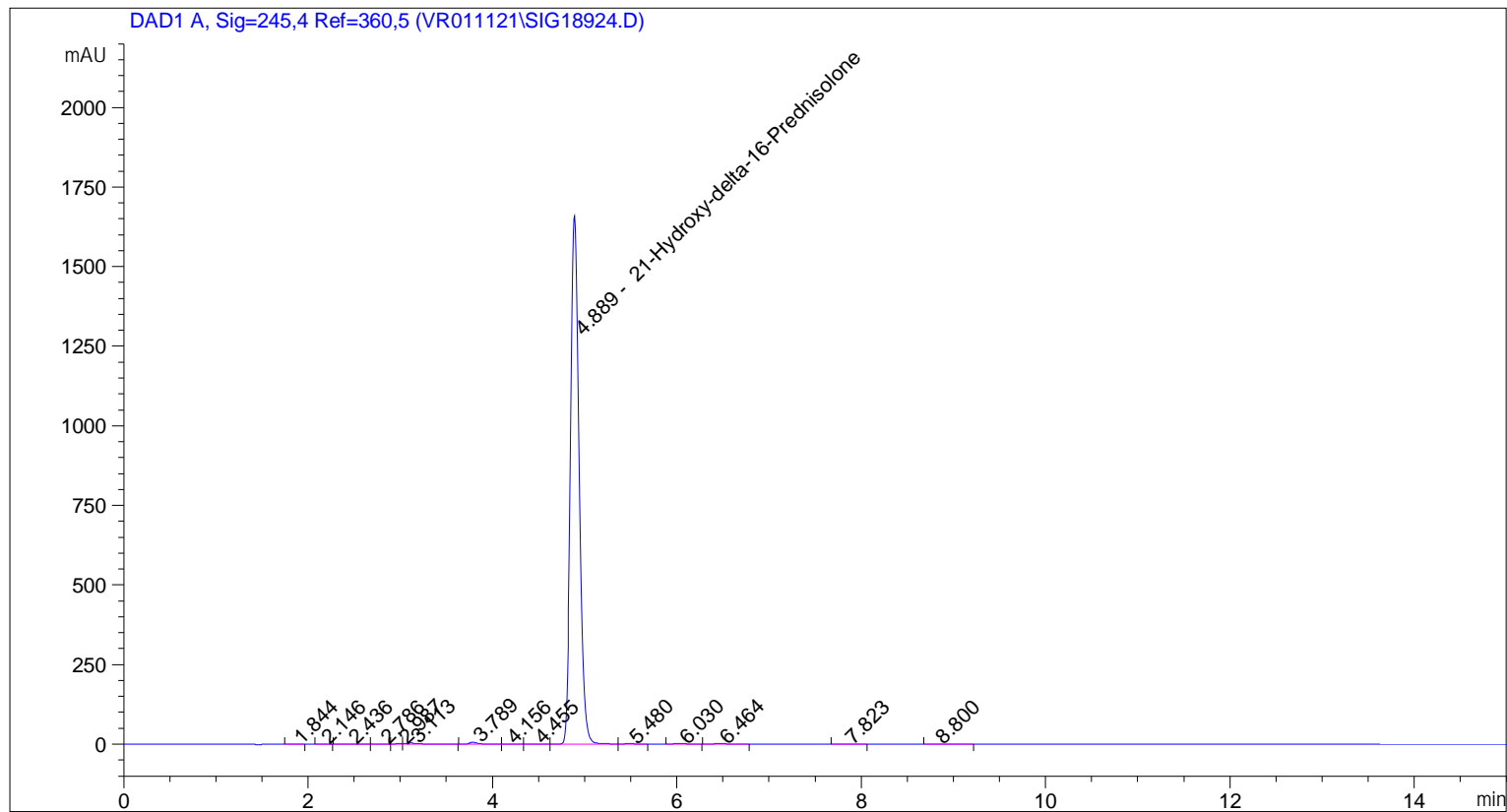
pp_2021_051_GR_16_237b 57 (1.086) Sm (SG, 2x5.00); Sb (2.10.00); Cm (57:59-80:84x2.000)



ESI-MS spectrum for sample GR-16-237. Shows monoisotopic $[M+H]^+$ mass.

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Acq. Operator   : vrusu
Acq. Instrument : Instrument 1                Location : Vial 44
Injection Date  : 11/19/2021 10:40:17 AM
                                           Inj Volume : 10.0 µl
Acq. Method    : C:\CHEM32\1\METHODS\VR111921_237.M
Last changed   : 11/19/2021 10:39:10 AM by vrusu
Analysis Method: C:\CHEM32\1\METHODS\VR111921_237PM.M
Last changed   : 11/19/2021 11:07:56 AM by vrusu
  
```



Area Percent Report

```

Sorted By           : Signal
Calib. Data Modified : 11/19/2021 11:03:32 AM
Multiplier:         : 1.0000
Dilution:           : 1.0000
Use Multiplier & Dilution Factor with ISTDs
  
```

Signal 1: DAD1 A, Sig=245,4 Ref=360,5

Peak #	RetTime [min]	Type	Width [min]	Area [mAU*s]	Area %	Name
1	1.844	BB	0.0688	1.85976	0.0171	?
2	2.146	BB	0.0836	8.27599e-1	7.604e-3	?
3	2.436	BB	0.1343	2.34573	0.0216	?
4	2.786	BV	0.0925	2.74536	0.0252	?
5	2.987	VV	0.0675	5.80917	0.0534	?
6	3.113	VB	0.1386	29.86501	0.2744	?
7	3.789	BV	0.0919	35.40670	0.3253	?
8	4.156	VB	0.0935	1.06944	9.826e-3	?

Sample Name: GR-16-237

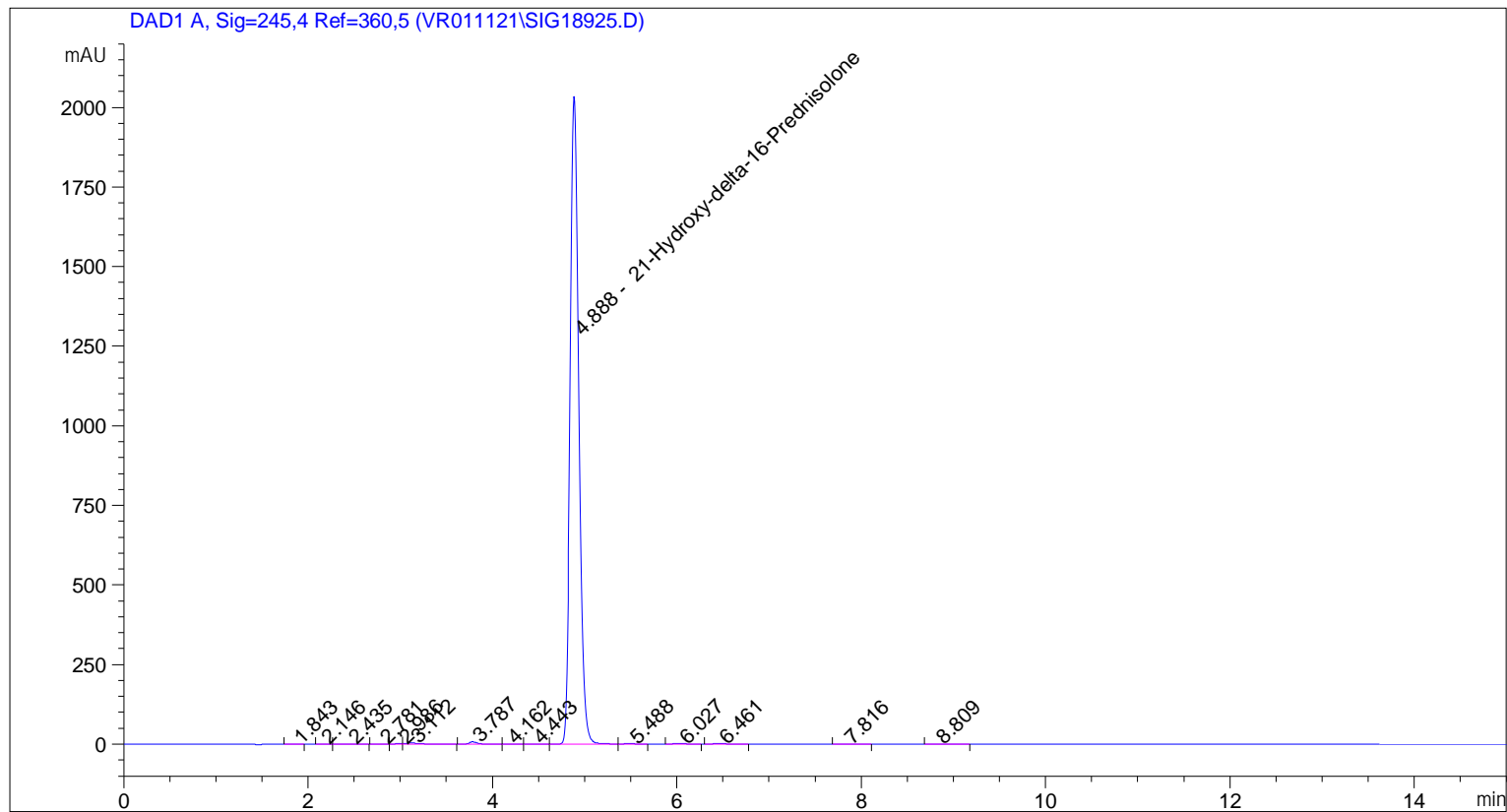
Peak #	RetTime [min]	Type	Width [min]	Area [mAU*s]	Area %	Name
9	4.455	BB	0.1208	1.23215	0.0113	?
10	4.889	BV	0.0996	1.07573e4	98.8382	21-Hydroxy-delta-16-Prednisolone
11	5.480	VB	0.1623	9.91211	0.0911	?
12	6.030	BB	0.1143	16.52851	0.1519	?
13	6.464	BB	0.1260	16.02595	0.1472	?
14	7.823	BB	0.1101	1.37005	0.0126	?
15	8.800	BB	0.1610	1.44615	0.0133	?

Totals : 1.08837e4

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*** End of Report ***

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Acq. Operator   : vrusu
Acq. Instrument : Instrument 1                Location : Vial 45
Injection Date  : 11/19/2021 11:00:25 AM
                                           Inj Volume : 10.0 µl
Acq. Method    : C:\CHEM32\1\METHODS\VR111921_237.M
Last changed   : 11/19/2021 10:59:21 AM by vrusu
Analysis Method: C:\CHEM32\1\METHODS\VR111921_237PM.M
Last changed   : 11/19/2021 11:07:56 AM by vrusu
  
```



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 Area Percent Report
 =====

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Sorted By           :      Signal
Calib. Data Modified :      11/19/2021 11:03:32 AM
Multiplier:         :      1.0000
Dilution:           :      1.0000
Use Multiplier & Dilution Factor with ISTDs
  
```

Signal 1: DAD1 A, Sig=245,4 Ref=360,5

Peak #	RetTime [min]	Type	Width [min]	Area [mAU*s]	Area %	Name
1	1.843	BB	0.0697	1.70981	0.0128	?
2	2.146	BV	0.0746	7.70958e-1	5.749e-3	?
3	2.435	VB	0.1596	2.40584	0.0179	?
4	2.781	BB	0.0769	1.80123	0.0134	?
5	2.986	BV	0.0642	6.76110	0.0504	?
6	3.112	VB	0.1434	36.96032	0.2756	?
7	3.787	BV	0.0925	42.88238	0.3198	?
8	4.162	VB	0.0967	9.71568e-1	7.245e-3	?

Sample Name: GR-16-237 spl-2

Peak #	RetTime [min]	Type	Width [min]	Area [mAU*s]	Area %	Name
9	4.443	BB	0.1188	1.16624	8.697e-3	?
10	4.888	BV	0.1020	1.32622e4	98.8970	21-Hydroxy-delta-16-Prednisolone
11	5.488	VB	0.1623	10.71280	0.0799	?
12	6.027	BB	0.1151	19.36150	0.1444	?
13	6.461	BB	0.1228	18.78481	0.1401	?
14	7.816	BB	0.1201	1.83926	0.0137	?
15	8.809	BB	0.1619	1.79052	0.0134	?

Totals : 1.34101e4

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*** End of Report ***