

Name: Hydrocortisone-9 β ,11 β -epoxide-21-acetate
Lot#: GR-17-199
Test Date: 08/17/2022 (re-test date: 08/17/2027)
CAS No.: 4383-30-6
MF: C₂₃H₃₀O₆
MW: 402.48
Appearance: Beige Solid
Purity: 97.8% by HPLC (average of two sample preparations)
¹H-NMR: Conforms
MS-ESI (+) Conforms (shows peak at m/z = 403.24 [M+H]⁺)
Storage Store at 0-5°C in a dry place away from direct sunlight

Approved by:

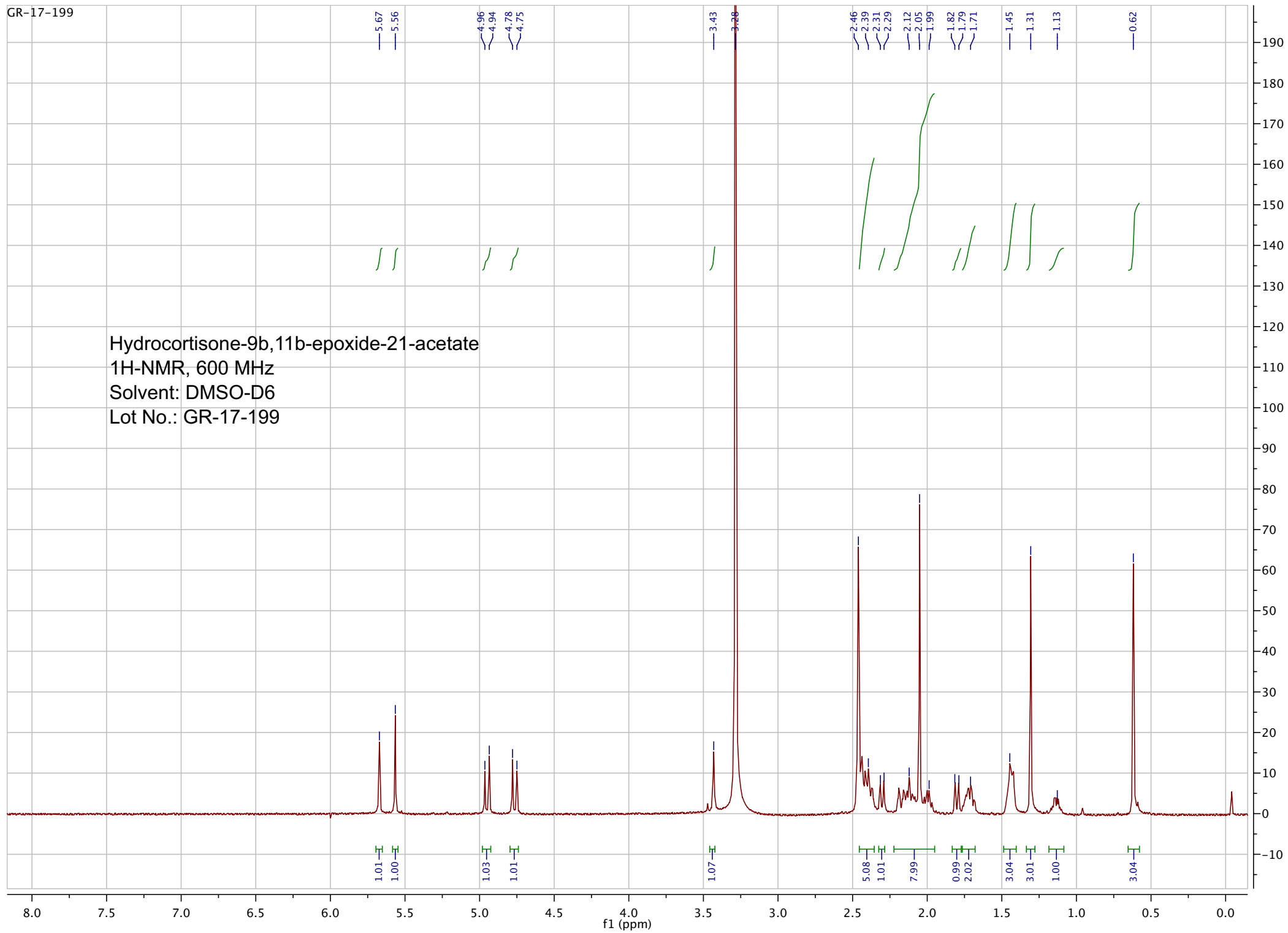
Date: 09/26/2022



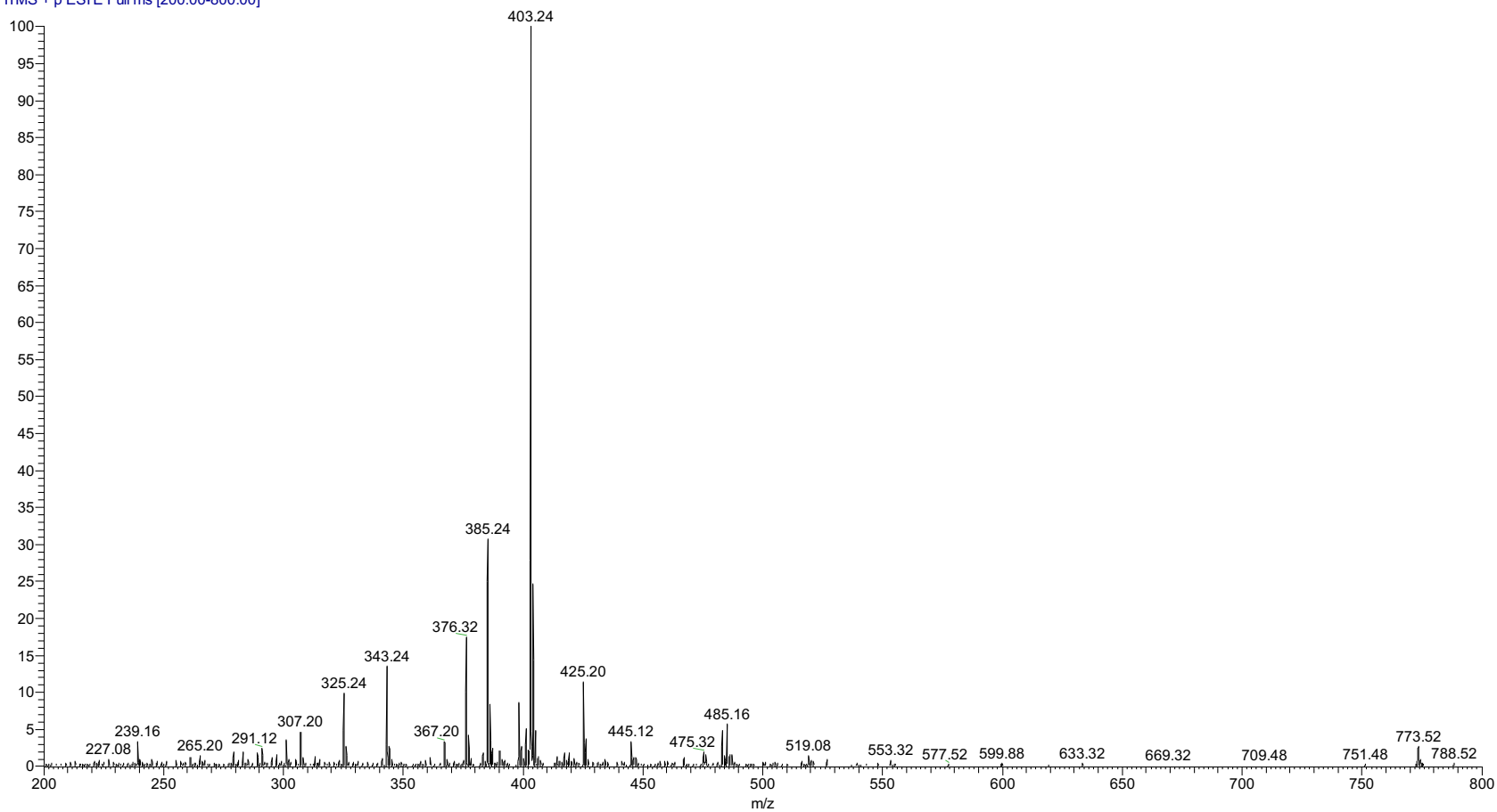
Viorica Rusu, QC/QA Manager

GR-17-199

Hydrocortisone-9b,11b-epoxide-21-acetate
1H-NMR, 600 MHz
Solvent: DMSO-D6
Lot No.: GR-17-199



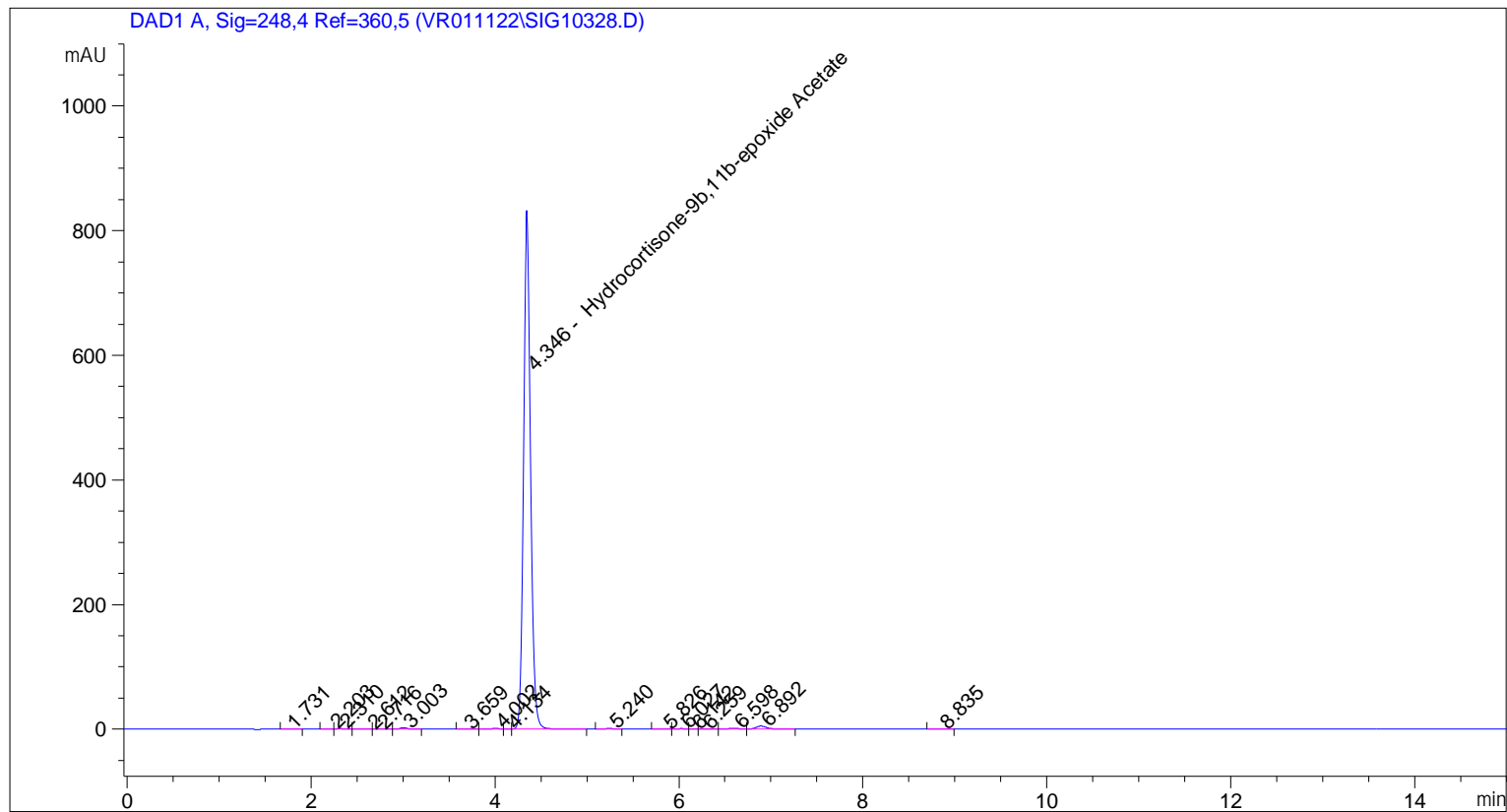
pp_2022_061_GR_17_199_220920101830 #1098 RT: 3.40 AV: 1 N :7
T: ITMS + p ESI E Full ms [200.00-800.00]



ESI-MS spectrum for sample GR-17-199. Shows monoisotopic [M+H]⁺ mass.

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Acq. Operator   : vrusu
Acq. Instrument : Instrument 1                Location : Vial 71
Injection Date  : 8/17/2022 9:59:45 AM
                                           Inj Volume : 5.0 µl
Acq. Method     : C:\CHEM32\1\METHODS\VR081722_199.M
Last changed    : 8/17/2022 9:58:38 AM by vrusu
Analysis Method : C:\CHEM32\1\METHODS\VR081722_199PM.M
Last changed    : 8/17/2022 1:02:46 PM by vrusu
  
```



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 Area Percent Report
 =====

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Sorted By           :      Signal
Calib. Data Modified :      8/17/2022 12:58:23 PM
Multiplier:         :      1.0000
Dilution:           :      1.0000
Use Multiplier & Dilution Factor with ISTDs
  
```

Signal 1: DAD1 A, Sig=248,4 Ref=360,5

Peak #	RetTime [min]	Type	Width [min]	Area [mAU*s]	Area %	Name
1	1.731	BB	0.0625	1.10226	0.0237	?
2	2.203	VV	0.0593	3.11443	0.0670	?
3	2.310	VB	0.0785	5.41042	0.1165	?
4	2.612	BV	0.0882	1.04298	0.0225	?
5	2.716	VV	0.1031	1.74629	0.0376	?
6	3.003	VV	0.0731	13.55833	0.2918	?
7	3.659	VB	0.0850	2.28649	0.0492	?
8	4.002	BV	0.0819	6.43591	0.1385	?

Sample Name: GR-17-199

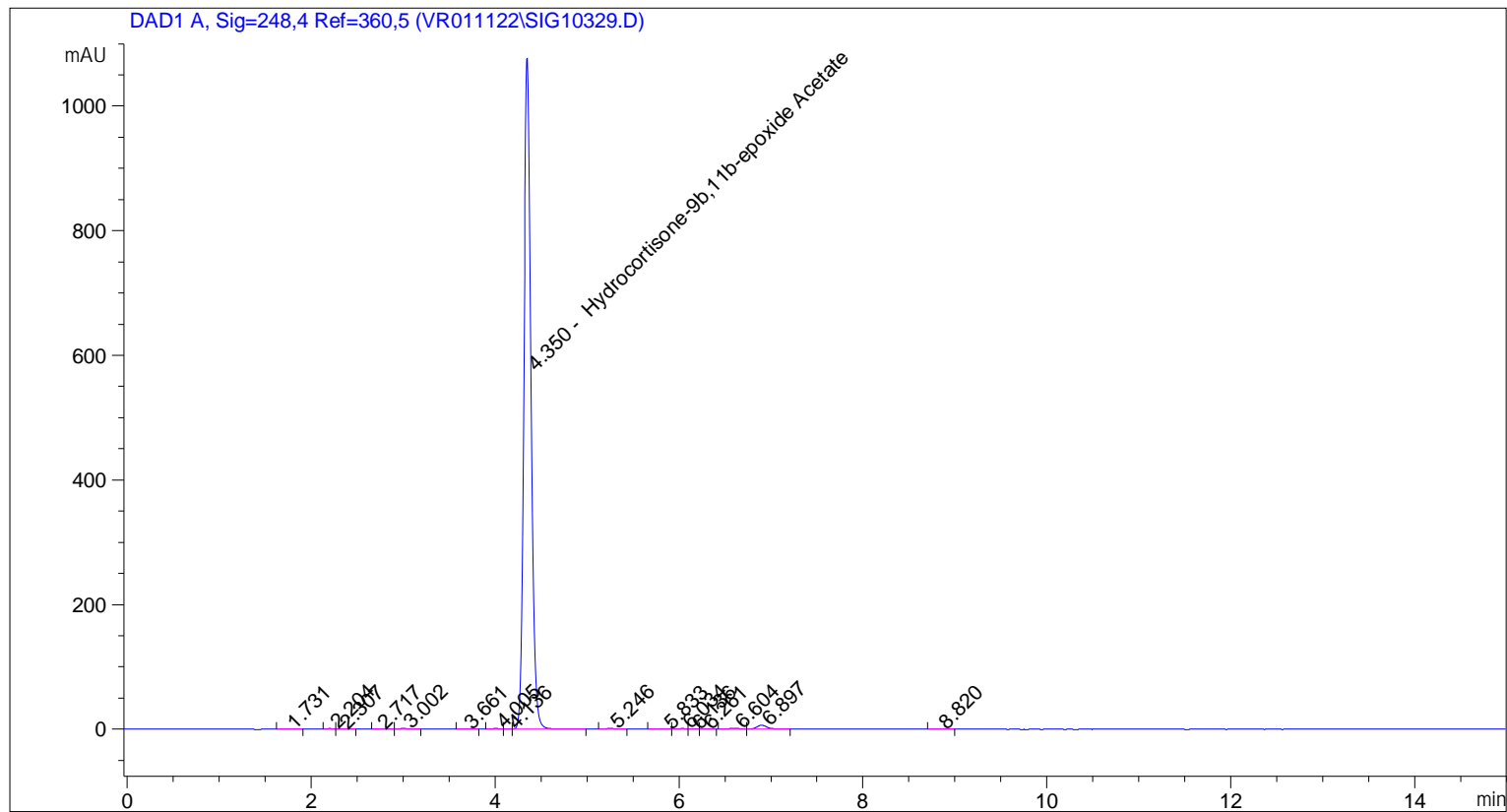
Peak #	RetTime [min]	Type	Width [min]	Area [mAU*s]	Area %	Name
9	4.134	VV	0.0657	1.28982	0.0278	?
10	4.346	VB	0.0835	4536.67432	97.6535	Hydrocortisone-9b,11b-epoxide Acetate
11	5.240	BB	0.0939	6.18687	0.1332	?
12	5.826	HH	0.0968	1.97603	0.0425	?
13	6.027	HH	0.1020	5.85366	0.1260	?
14	6.142	HH	0.0820	3.14429	0.0677	?
15	6.259	HH	0.0971	2.66417	0.0573	?
16	6.598	HH	0.1097	10.42146	0.2243	?
17	6.892	HB	0.1241	41.22011	0.8873	?
18	8.835	HH	0.1313	1.55562	0.0335	?

Totals : 4645.68346

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*** End of Report ***

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Acq. Operator   : vrusu
Acq. Instrument : Instrument 1                Location : Vial 72
Injection Date  : 8/17/2022 10:17:04 AM
                                           Inj Volume : 5.0 µl
Acq. Method    : C:\CHEM32\1\METHODS\VR081722_199.M
Last changed   : 8/17/2022 10:15:59 AM by vrusu
Analysis Method: C:\CHEM32\1\METHODS\VR081722_199PM.M
Last changed   : 8/17/2022 1:02:46 PM by vrusu
  
```



Area Percent Report

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Sorted By      : Signal
Calib. Data Modified : 8/17/2022 12:58:23 PM
Multiplier:    : 1.0000
Dilution:     : 1.0000
Use Multiplier & Dilution Factor with ISTDs
  
```

Signal 1: DAD1 A, Sig=248,4 Ref=360,5

Peak #	RetTime [min]	Type	Width [min]	Area [mAU*s]	Area %	Name
1	1.731	BB	0.0656	1.62516	0.0270	?
2	2.204	BV	0.0614	4.21519	0.0701	?
3	2.307	VB	0.0768	2.95158	0.0491	?
4	2.717	VB	0.0949	1.67829	0.0279	?
5	3.002	BB	0.0806	6.46368	0.1075	?
6	3.661	VB	0.0761	2.45310	0.0408	?
7	4.005	BV	0.0829	5.99433	0.0997	?
8	4.136	VV	0.0695	1.86918	0.0311	?

Sample Name: GR-17-199 spl-2

Peak #	RetTime [min]	Type	Width [min]	Area [mAU*s]	Area %	Name
9	4.350	VB	0.0836	5890.88867	97.9439	Hydrocortisone-9b,11b-epoxide Acetate
10	5.246	BB	0.0919	7.98047	0.1327	?
11	5.833	BH	0.1099	2.79105	0.0464	?
12	6.034	HH	0.1022	7.29109	0.1212	?
13	6.136	HH	0.0930	4.52316	0.0752	?
14	6.261	HB	0.0982	3.37787	0.0562	?
15	6.604	BH	0.1133	13.61929	0.2264	?
16	6.897	HB	0.1253	54.88886	0.9126	?
17	8.820	HB	0.1190	1.94291	0.0323	?

Totals : 6014.55387

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*** End of Report ***