

Name:	6α-Hydroxy Mestranol
Lot#:	GR-15-121
Test Date:	08/15/2025 (re-test date: 08/15/2030)
CAS No.:	51414-85-8
MF:	C ₂₁ H ₂₆ O ₃
MW:	326.43
Appearance:	White solid
Purity:	97.0% by HPLC (average of two sample preparations)
¹H-NMR:	Conforms
MS-ESI (+)	Conforms (shows peak at m/z = 325.18 [M-H ₂ +H] ⁺ and 309.19 [M-H ₂ O+H] ⁺ ; Note: during the ionization the substrate undergoes instantaneous oxidation with traces of O ₂ in the system)
Storage	Long term store at 0 - 5° C in a dry place away from direct sunlight

Approved by:

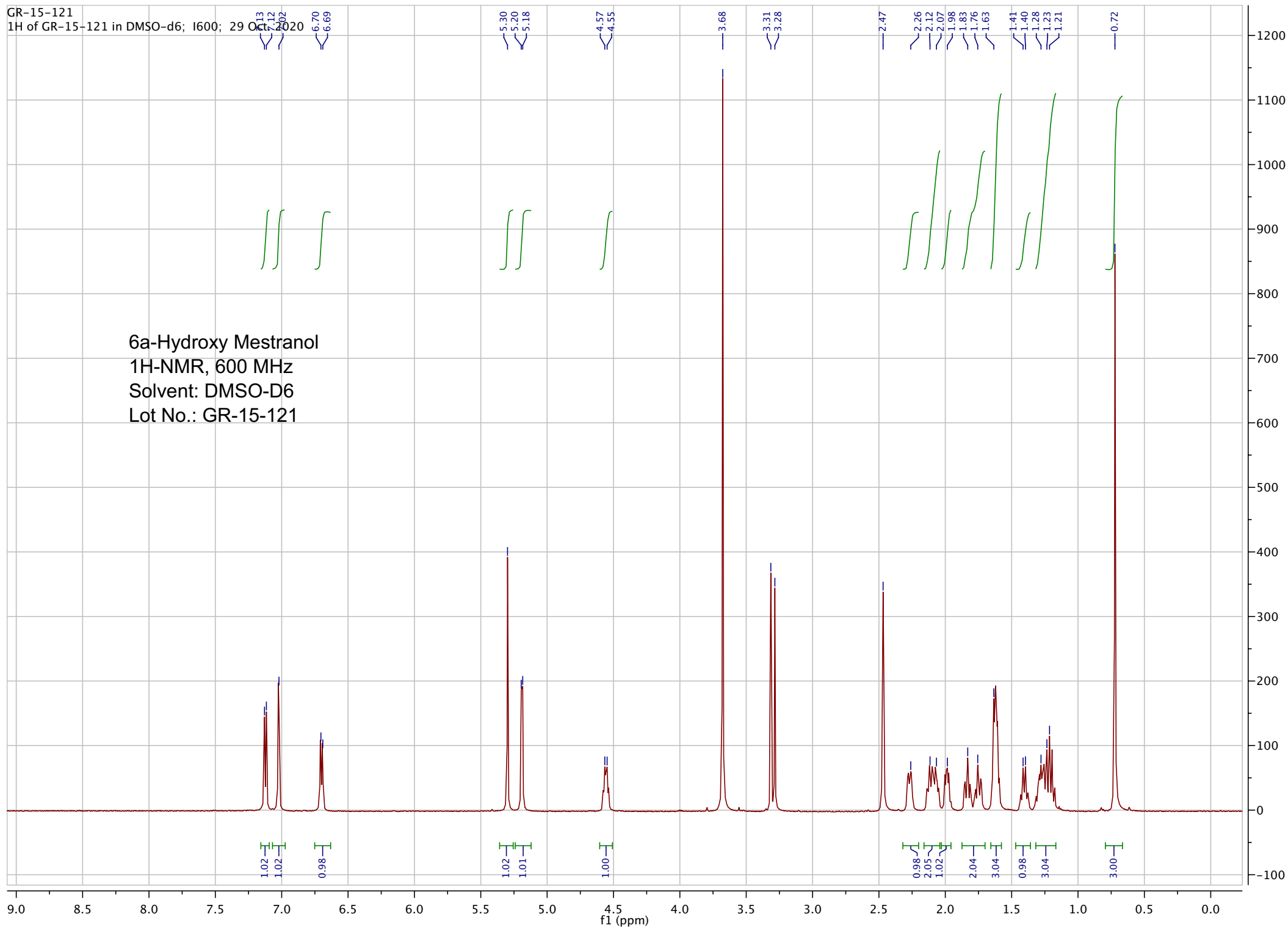
Date: 08/15/2025



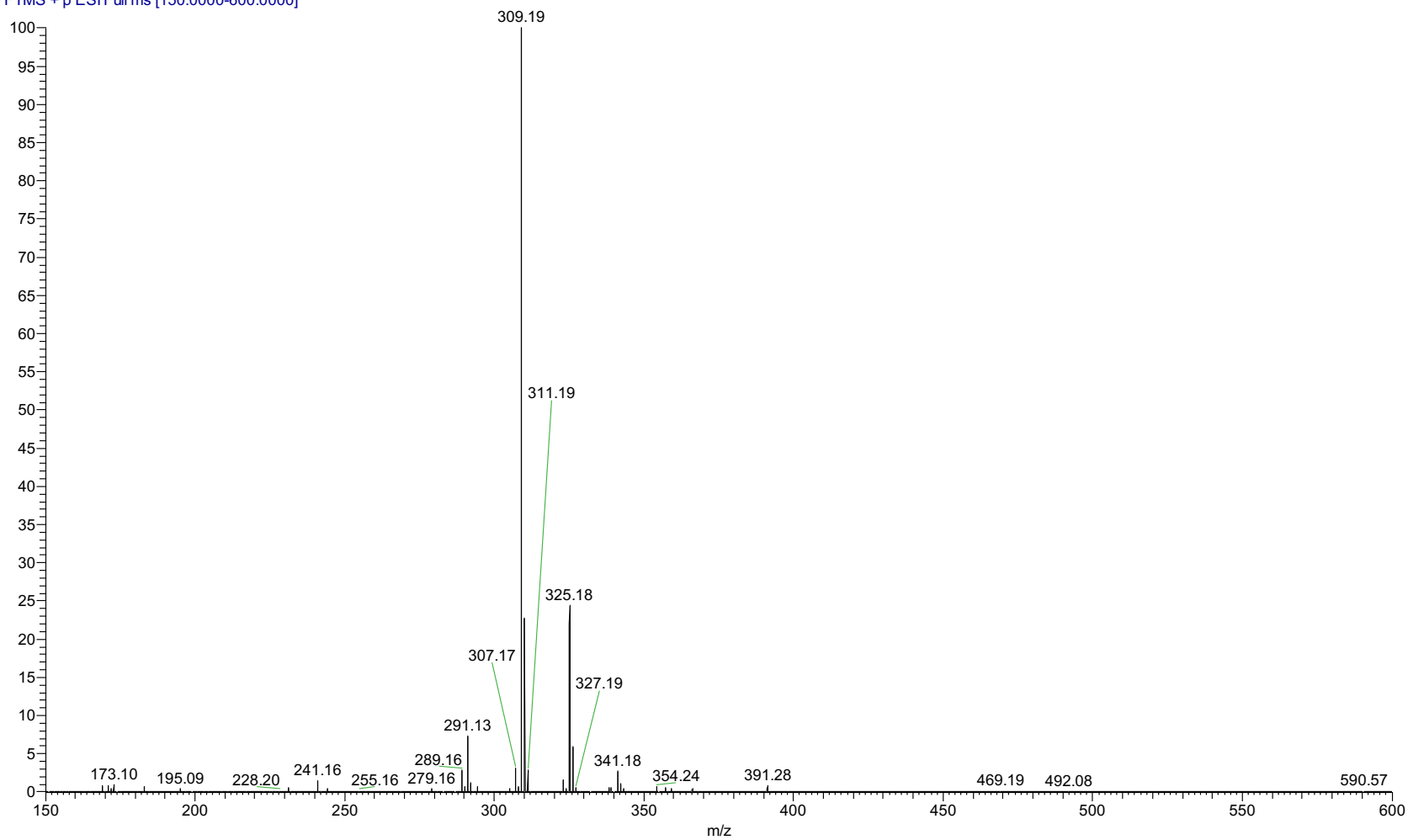
Viorica Rusu, QC/QA Manager

GR-15-121
1H of GR-15-121 in DMSO-d6; I600; 29 Oct 2020

6a-Hydroxy Mestranol
1H-NMR, 600 MHz
Solvent: DMSO-D6
Lot No.: GR-15-121



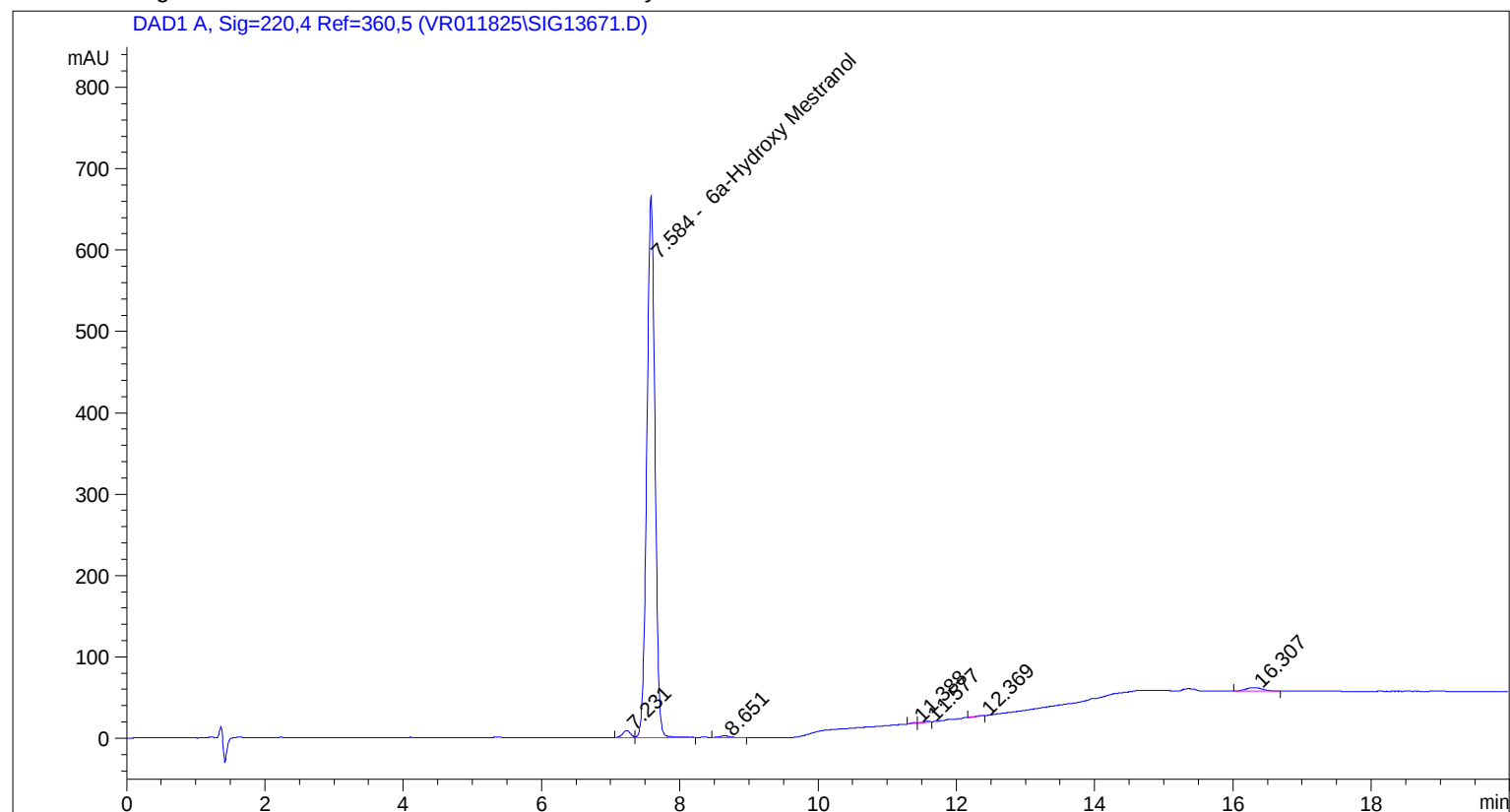
pp_2020_032_GR_15_121_1 #1111 RT: 2.49 AV: 1 NL: 6.11E8
T: FTMS + p ESI Full ms [150.0000-600.0000]



ESI-MS spectrum for sample GR-15-121. Shows monoisotopic $[M+H]^+$ mass.

Sample Name: GR-15-121 spl-2

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=====
Acq. Operator   : vrusu
Acq. Instrument : Instrument 1                Location : Vial 27
Injection Date  : 8/15/2025 3:20:19 PM
                                           Inj Volume : 5.0 µl
Acq. Method     : C:\CHEM32\1\METHODS\VR081525_121.M
Last changed    : 8/15/2025 3:19:16 PM by vrusu
Analysis Method : C:\CHEM32\1\METHODS\VR081525_121PM.M
Last changed    : 8/15/2025 3:47:47 PM by vrusu
=====
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                        Area Percent Report
=====
```

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Sorted By           :      Signal
Calib. Data Modified :      8/15/2025 3:47:21 PM
Multiplier:         :      1.0000
Dilution:           :      1.0000
Use Multiplier & Dilution Factor with ISTDs
```

Signal 1: DAD1 A, Sig=220,4 Ref=360,5

Peak #	RetTime [min]	Type	Width [min]	Area [mAU*s]	Area %	Name
1	7.231	BV	0.1207	65.97859	1.1741	?
2	7.584	VB	0.1274	5444.87646	96.8898	6a-Hydroxy Mestranol
3	8.651	BB	0.1505	20.69630	0.3683	?
4	11.388	BV	0.0726	4.09829	0.0729	?
5	11.577	VB	0.0779	6.86851	0.1222	?
6	12.369	VB	0.0883	4.02601	0.0716	?
7	16.307	BB	0.2372	73.11211	1.3010	?

Sample Name: GR-15-121 spl-2

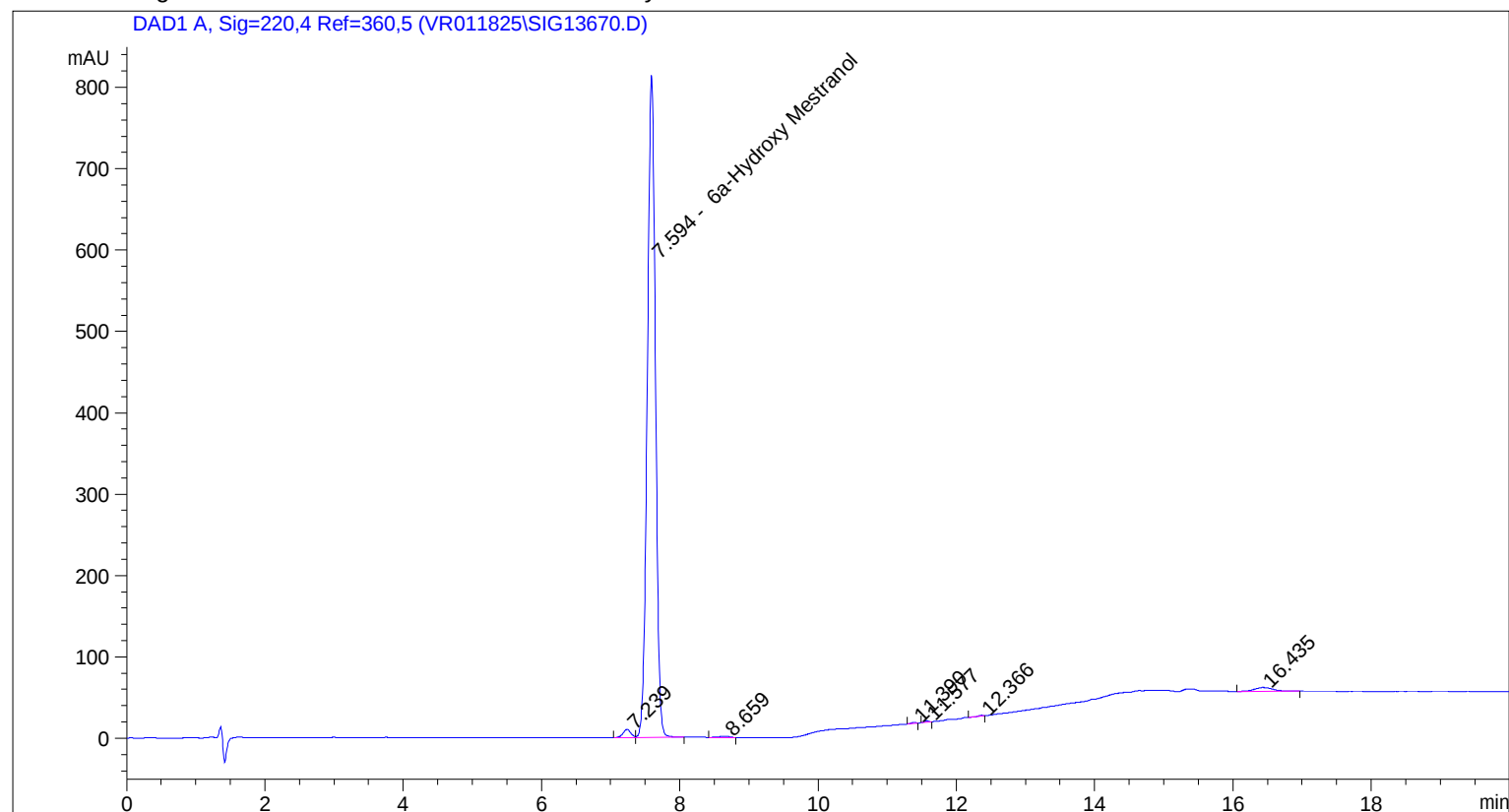
Totals : 5619.65628

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*** End of Report ***

Sample Name: GR-15-121

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=====
Acq. Operator   : vrusu
Acq. Instrument : Instrument 1                Location : Vial 26
Injection Date  : 8/15/2025 2:55:08 PM
                                           Inj Volume : 5.0 µl
Acq. Method     : C:\CHEM32\1\METHODS\VR081525_121.M
Last changed    : 8/15/2025 2:54:05 PM by vrusu
Analysis Method : C:\CHEM32\1\METHODS\VR081525_121PM.M
Last changed    : 8/15/2025 3:47:47 PM by vrusu
=====
```



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

```
Sorted By           :      Signal
Calib. Data Modified :      8/15/2025 3:47:21 PM
Multiplier:         :      1.0000
Dilution:           :      1.0000
Use Multiplier & Dilution Factor with ISTDs
```

Signal 1: DAD1 A, Sig=220,4 Ref=360,5

Peak #	RetTime [min]	Type	Width [min]	Area [mAU*s]	Area %	Name
1	7.239	BV	0.1189	75.88062	1.1051	?
2	7.594	VB	0.1276	6669.99316	97.1359	6a-Hydroxy Mestranol
3	8.659	BB	0.1434	16.40091	0.2388	?
4	11.390	BB	0.0704	4.41716	0.0643	?
5	11.577	BB	0.0631	6.28877	0.0916	?
6	12.366	VB	0.0715	4.41276	0.0643	?
7	16.435	BB	0.2336	89.26707	1.3000	?

Sample Name: GR-15-121

Totals : 6866.66045

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*** End of Report ***