

Name:	Fulvestrant-9-sulfone
Lot#:	GR-4-009
Test Date:	02/17/2022 (re-test date: 02/17/2027)
CAS No.:	98008-06-1
MF:	C ₃₂ H ₄₇ F ₅ O ₄ S
MW:	622.77
Appearance:	Off-white solid
Purity:	97.4% by HPLC (average of two sample preparations)
¹H-NMR:	Conforms
MS-ESI (+)	Conforms (shows peaks at m/z=605.13 [M-H ₂ O+H] ⁺ and 645.11 [M+Na] ⁺)
Storage	Store at -18°C in a dry place away from direct sunlight

Approved by:

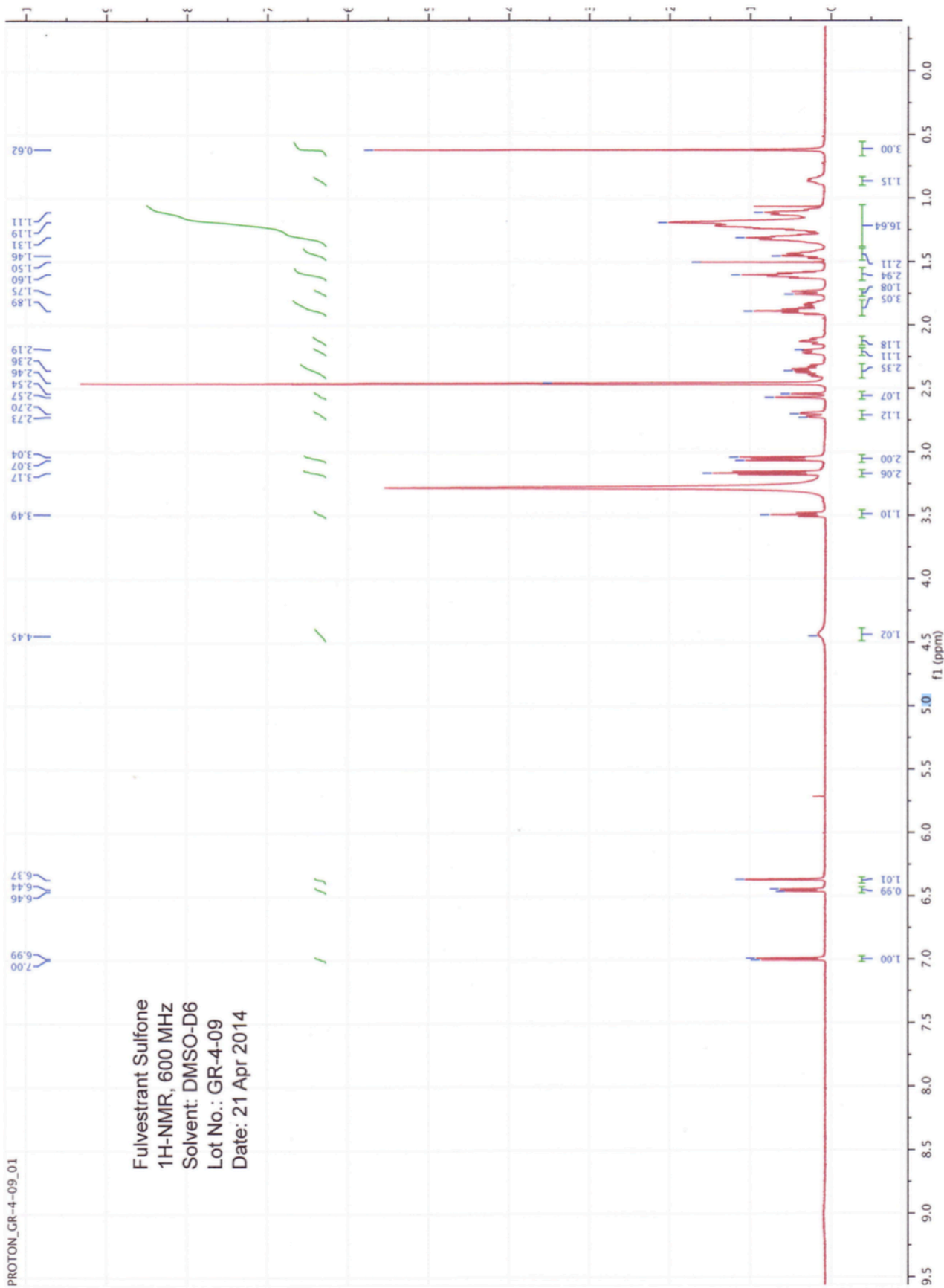
Date: 02/17/2022

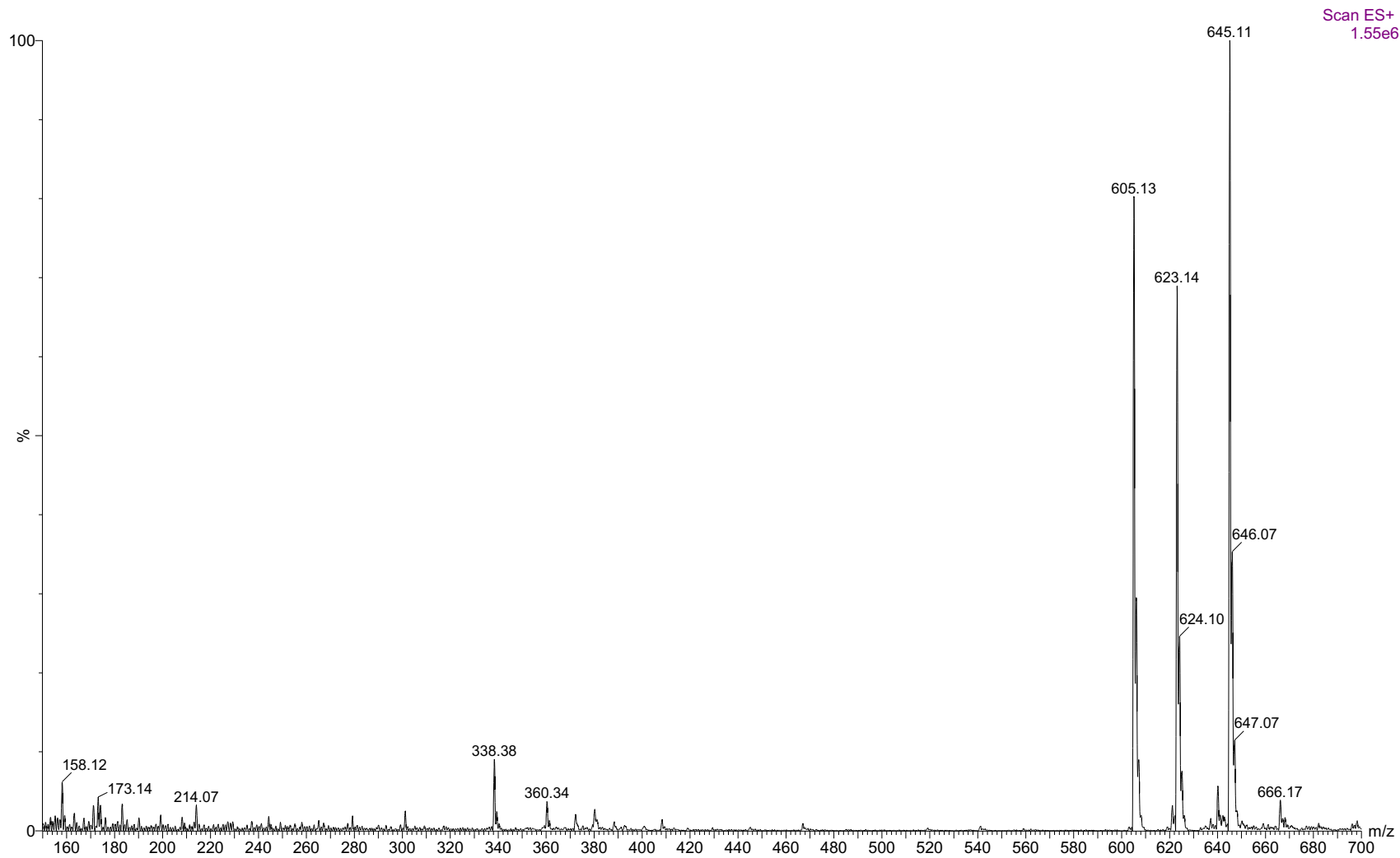


Viorica Rusu, QC/QA Manager

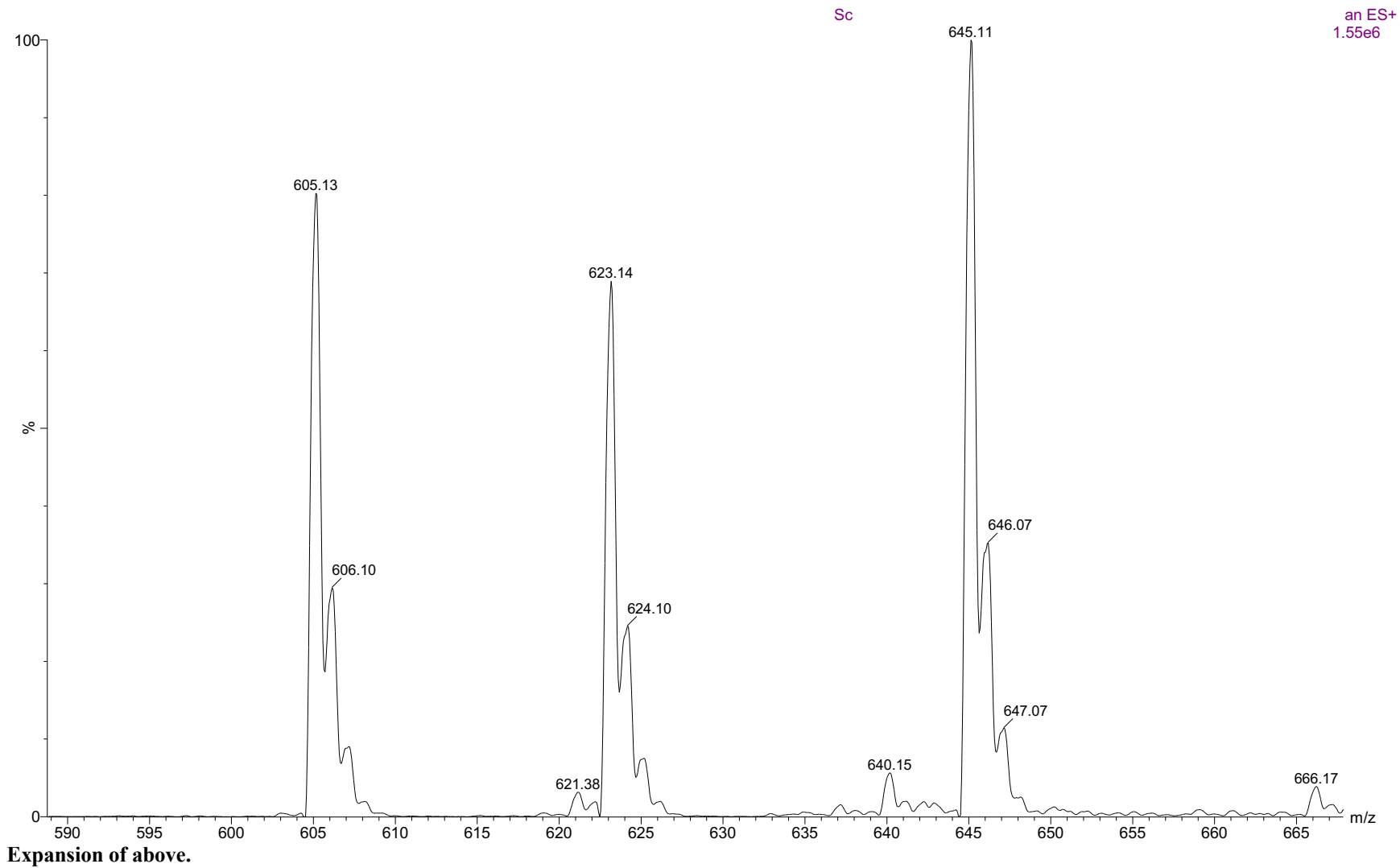
PROTON_CR-4-09_01

Fulvestrant Sulfone
1H-NMR, 600 MHz
Solvent: DMSO-D6
Lot No.: GR-4-09
Date: 21 Apr 2014



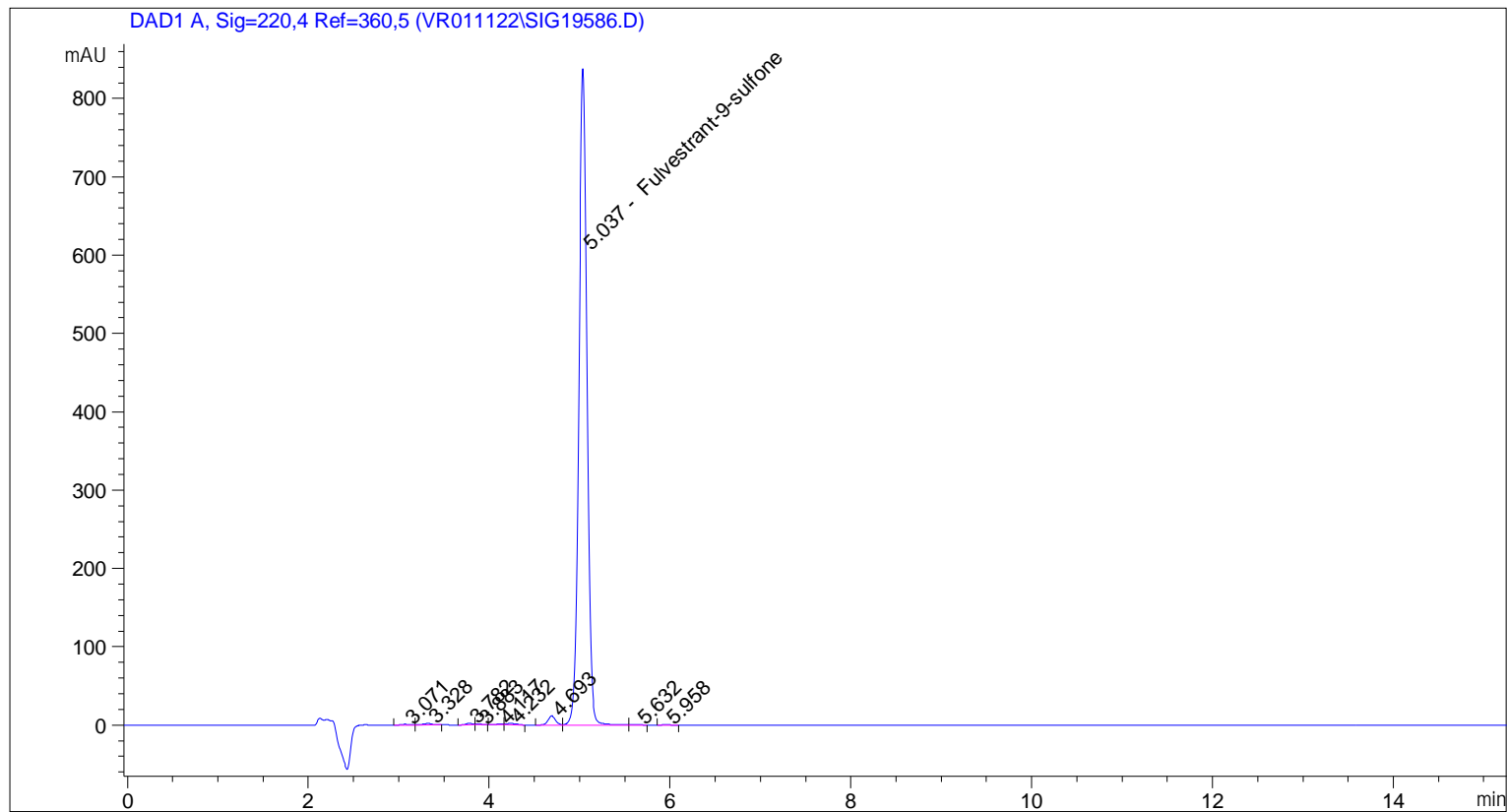


ESI-MS data for sample GR-4-009. Shows monoisotopic [M+H]⁺ mass.



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Acq. Operator   : vrusu
Acq. Instrument : Instrument 1                Location : Vial 45
Injection Date  : 2/17/2022 2:47:07 PM
                                           Inj Volume : 15.0 µl
Acq. Method     : C:\CHEM32\1\METHODS\VR021722_009.M
Last changed    : 2/17/2022 2:46:03 PM by vrusu
Analysis Method : C:\CHEM32\1\METHODS\VR021722_009PM.M
Last changed    : 2/17/2022 3:17:19 PM by vrusu
  
```



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 Area Percent Report
 =====

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Sorted By           :      Signal
Calib. Data Modified :      2/17/2022 3:15:17 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	3.071	BV	0.0896	6.26158	0.1160	?
2	3.328	VB	0.1170	13.46286	0.2495	?
3	3.782	BV	0.0784	11.60589	0.2151	?
4	3.883	VB	0.0705	5.47190	0.1014	?
5	4.117	BV	0.0808	6.56084	0.1216	?
6	4.232	VB	0.1082	16.12860	0.2989	?
7	4.693	BV	0.0904	69.67649	1.2913	?
8	5.037	VV	0.0952	5260.37695	97.4921	Fulvestrant-9-sulfone

Sample Name: GR-4-009

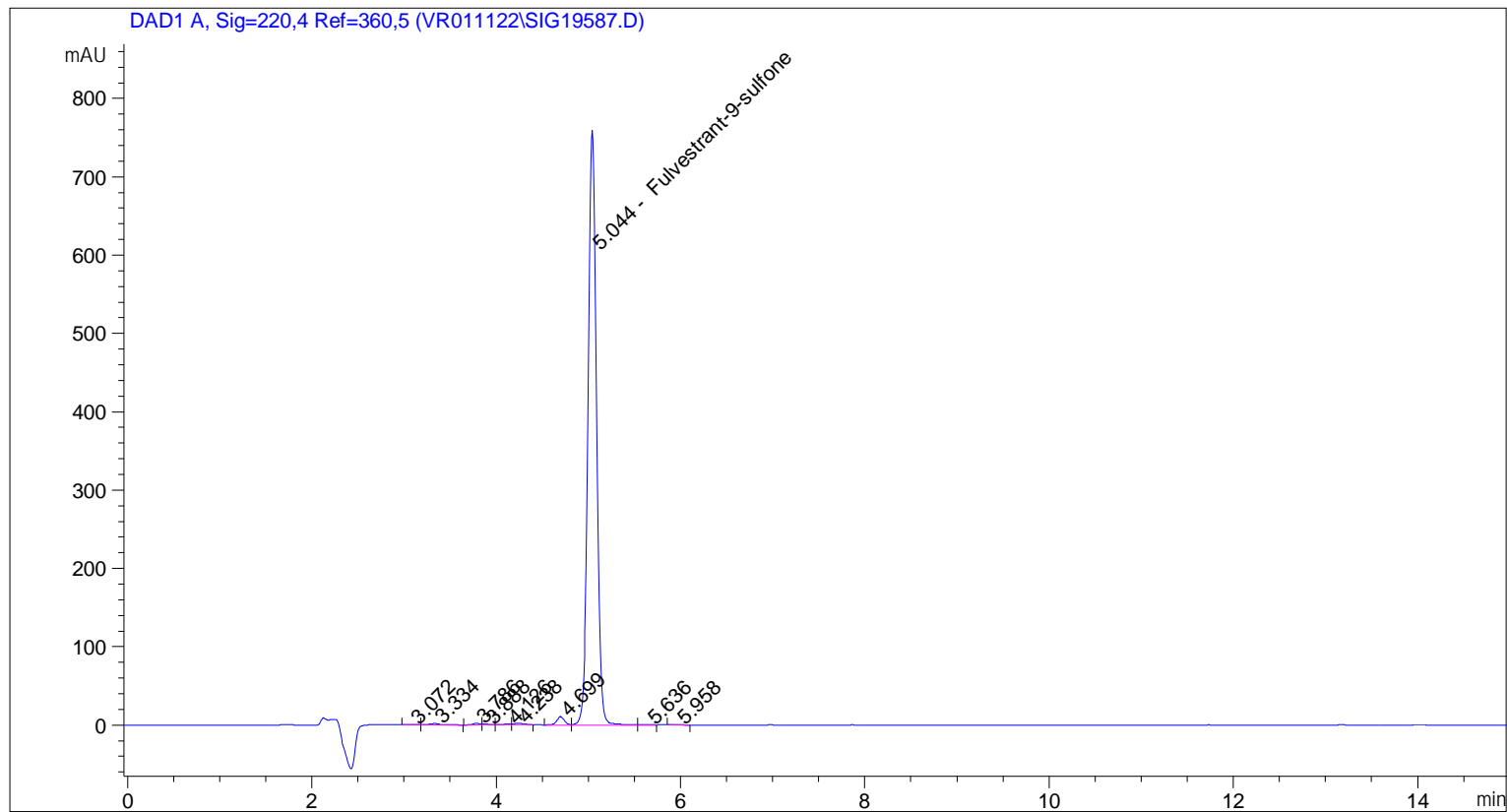
Peak #	RetTime [min]	Type	Width [min]	Area [mAU*s]	Area %	Name
9	5.632	VB	0.0984	3.42502	0.0635	?
10	5.958	BB	0.0975	2.72770	0.0506	?

Totals : 5395.69784

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*** End of Report ***

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Acq. Operator   : vrusu
Acq. Instrument : Instrument 1                Location : Vial 46
Injection Date  : 2/17/2022 3:04:13 PM
                                           Inj Volume : 15.0 µl
Acq. Method     : C:\CHEM32\1\METHODS\VR021722_009.M
Last changed    : 2/17/2022 3:03:13 PM by vrusu
Analysis Method : C:\CHEM32\1\METHODS\VR021722_009PM.M
Last changed    : 2/17/2022 3:17:19 PM by vrusu
  
```



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 Area Percent Report
 =====

```

Sorted By           :      Signal
Calib. Data Modified :      2/17/2022 3:15:17 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	3.072	BV	0.0857	3.97731	0.0811	?
2	3.334	VB	0.1317	14.77193	0.3013	?
3	3.786	BV	0.0796	11.00919	0.2246	?
4	3.888	VB	0.0706	5.03463	0.1027	?
5	4.126	BV	0.0783	6.63517	0.1353	?
6	4.238	VB	0.1122	16.54352	0.3375	?
7	4.699	BV	0.0908	63.48171	1.2949	?
8	5.044	VV	0.0954	4775.34570	97.4112	Fulvestrant-9-sulfone

Sample Name: GR-4-009 spl-2

Peak #	RetTime [min]	Type	Width [min]	Area [mAU*s]	Area %	Name
9	5.636	VB	0.1149	3.13922	0.0640	?
10	5.958	BB	0.0996	2.31800	0.0473	?

Totals : 4902.25639

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*** End of Report ***