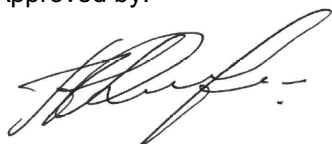


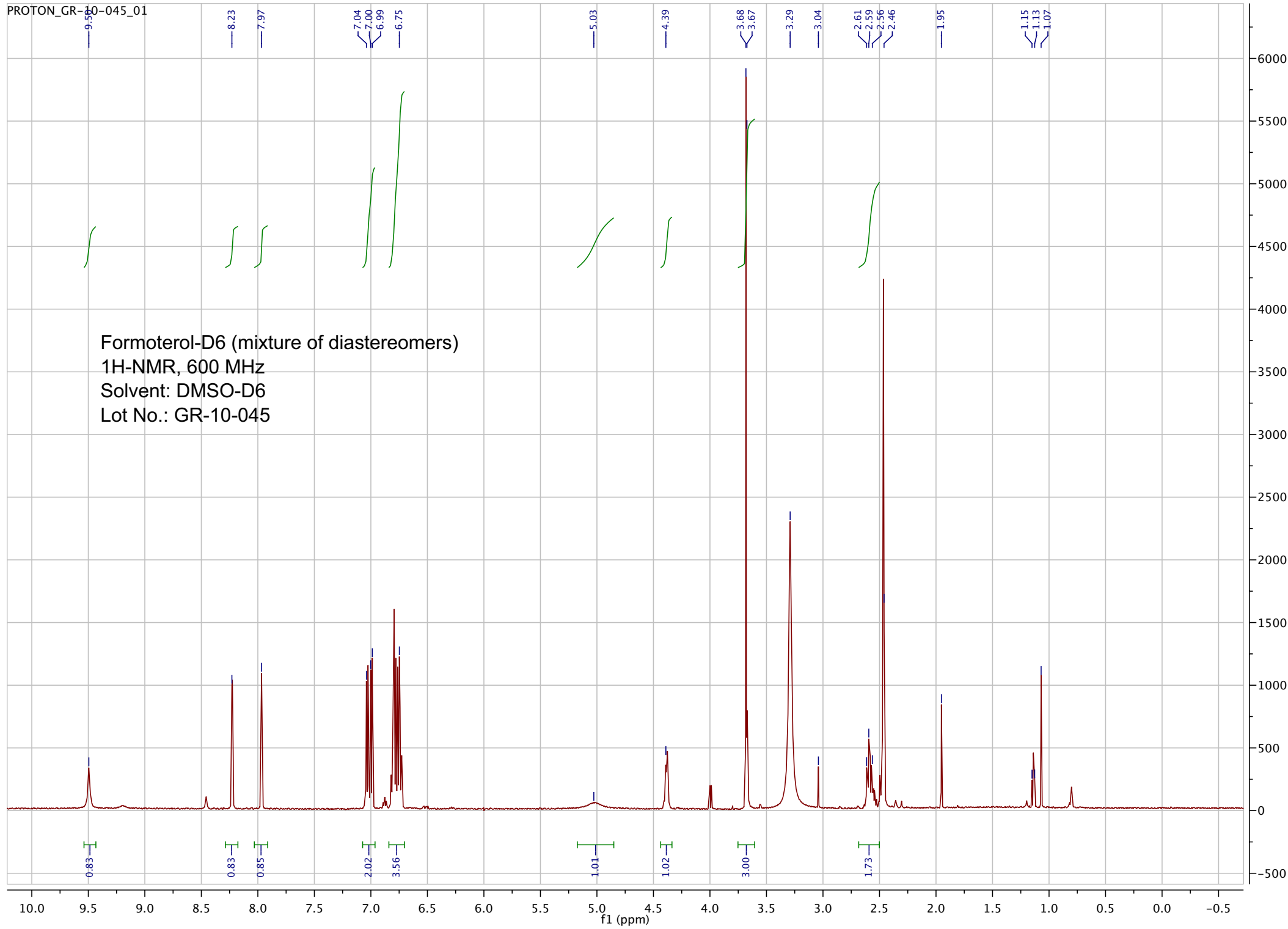
Name:	Formoterol-D6 (mixture of diastereomers)
Lot#:	GR-10-045
Test Date:	03/24/2022 (re-test date: 03/24/2027)
CAS No.:	1020719-45-2
MF:	C ₁₉ H ₁₈ D ₆ N ₂ O ₆
MW:	350.44
Appearance:	Beige solid
Purity:	96.4% by HPLC; >98% atom D
¹H-NMR:	Conforms
MS-ESI (+)	Conforms (shows peak at m/z = 350.9 [M+H] ⁺)
Storage	Store at -18°C in a dry place away from direct sunlight

Approved by:

Date: 03/24/2022



Viorica Rusu, QC/QA Manager



pp_2017_028_GR_10_045 67 (1.239) Sm (SG, 2x5.00); Sb (2,10.00); Cm (67:78)

7.0000000

1: TOF MS ES+
7.70e3

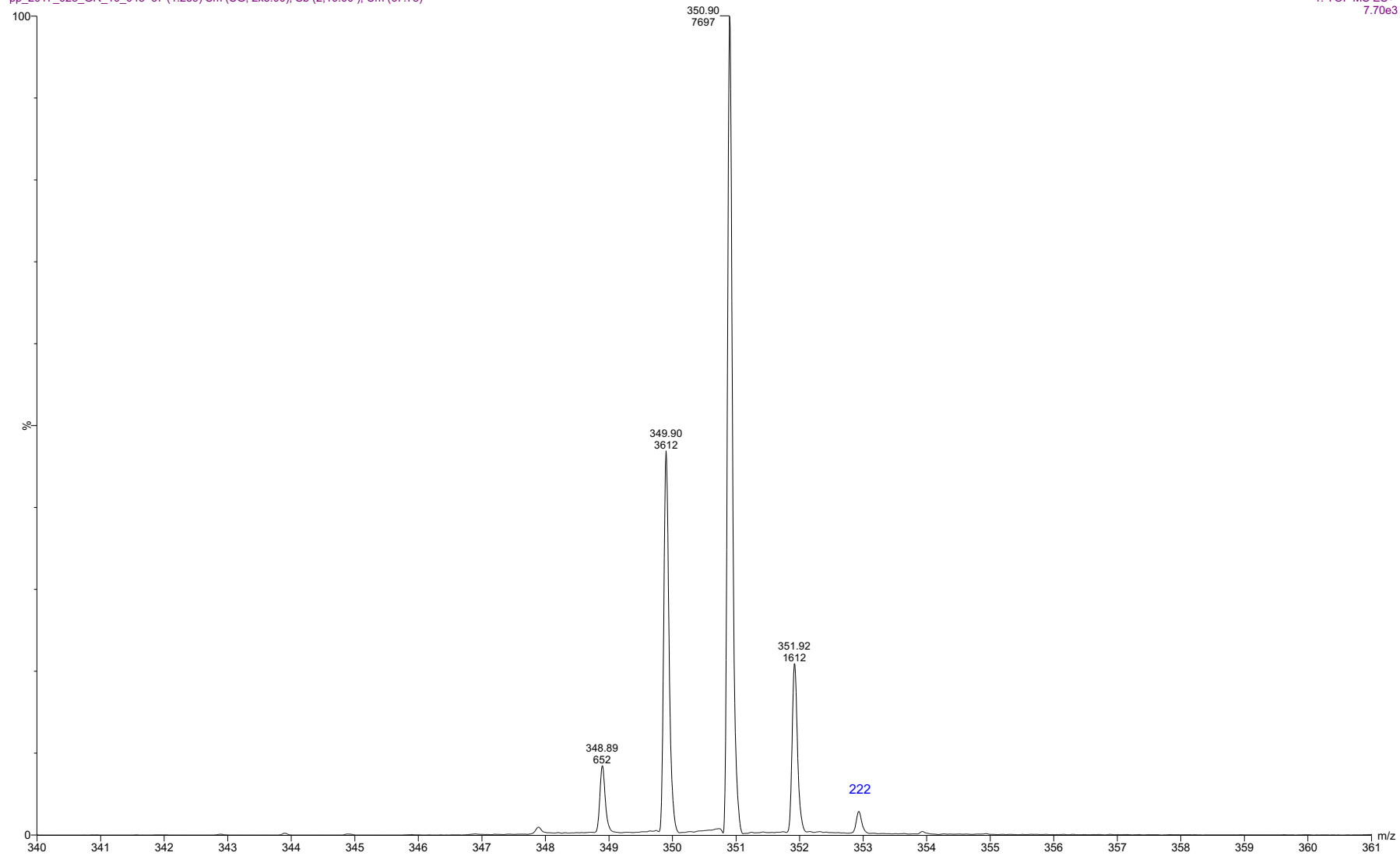


ESI-MS spectrum for sample GR-10-045. Shows monoisotopic $[M+H]^+$ mass.

pp_2017_028_GR_10_045 67 (1.239) Sm (SG, 2x5.00); Sb (2,10.00); Cm (67:78)

7.0000000

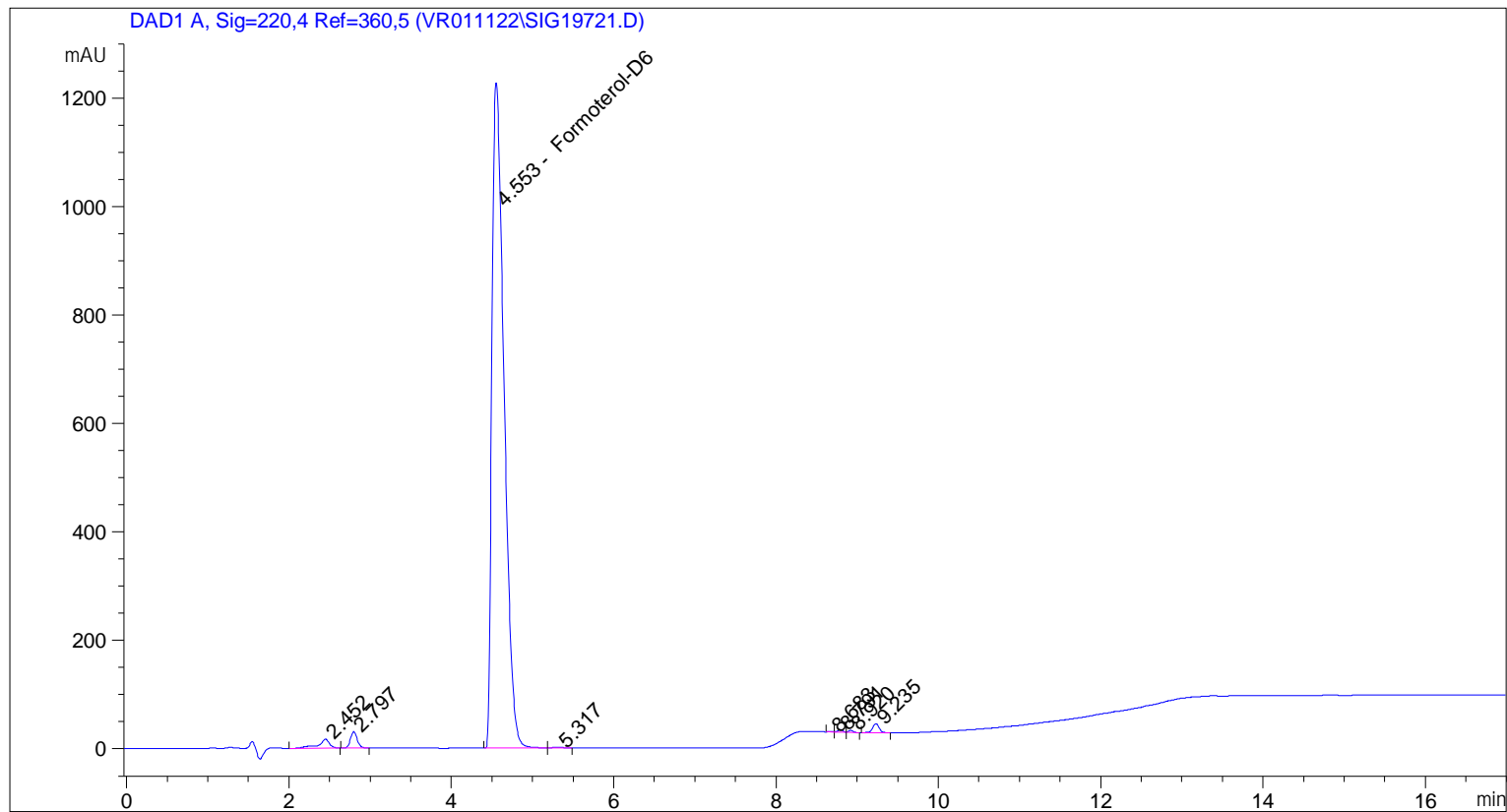
1: TOF MS ES+
7.70e3



Expansion of the above showing the intensity levels.

```

=====
Acq. Operator   : vrusu
Acq. Instrument : Instrument 1                Location : Vial 2
Injection Date  : 3/24/2022 7:55:48 AM
                                           Inj Volume : 5.0 µl
Acq. Method    : C:\CHEM32\1\METHODS\VR032422_045.M
Last changed   : 3/24/2022 7:54:51 AM by vrusu
Analysis Method : C:\CHEM32\1\METHODS\VR032422_045PM.M
Last changed   : 3/24/2022 9:53:30 AM by vrusu
  
```



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

```

Sorted By      : Signal
Calib. Data Modified : 3/24/2022 9:52:50 AM
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	2.452	BB	0.1300	155.94363	1.1803	?
2	2.797	BB	0.0886	173.16953	1.3106	?
3	4.553	BV	0.1631	1.27332e4	96.3714	Formoterol-D6
4	5.317	VB	0.1532	12.47758	0.0944	?
5	8.683	BV	0.0646	2.61225	0.0198	?
6	8.791	VV	0.0675	20.95851	0.1586	?
7	8.920	VB	0.0639	16.37408	0.1239	?
8	9.235	BB	0.0930	97.89658	0.7409	?

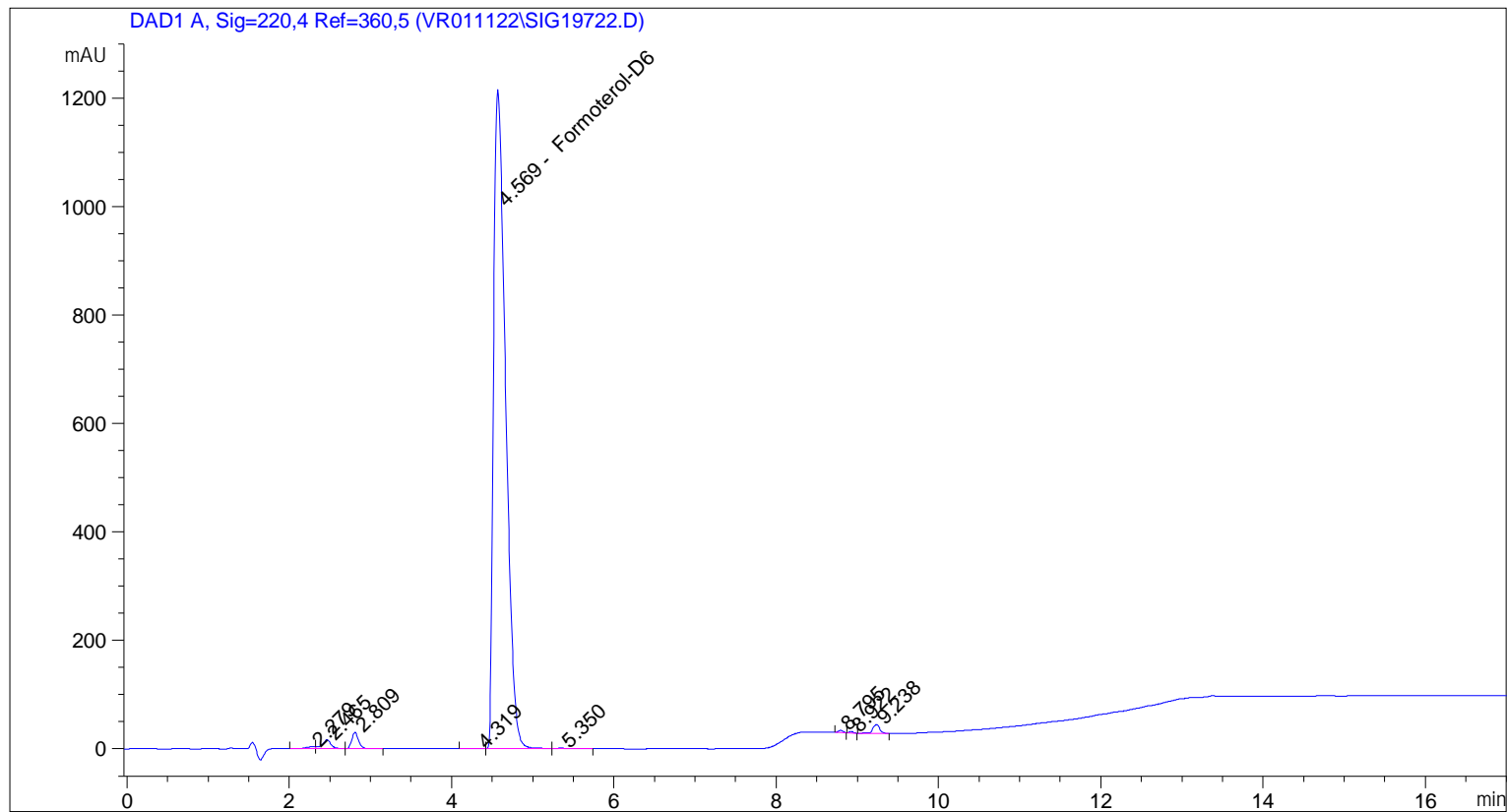
Sample Name: GR-10-045

Peak #	RetTime [min]	Type	Width [min]	Area [mAU*s]	Area %	Name
Totals :				1.32126e4		

=====
*** End of Report ***

```

=====
Acq. Operator   : vrusu
Acq. Instrument : Instrument 1                Location : Vial 3
Injection Date  : 3/24/2022 8:23:25 AM
                                           Inj Volume : 5.0 µl
Acq. Method    : C:\CHEM32\1\METHODS\VR032422_045.M
Last changed   : 3/24/2022 8:22:24 AM by vrusu
Analysis Method: C:\CHEM32\1\METHODS\VR032422_045PM.M
Last changed   : 3/24/2022 9:53:30 AM by vrusu
  
```



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

```

Sorted By      : Signal
Calib. Data Modified : 3/24/2022 9:52:50 AM
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	2.279	BV	0.1332	28.79320	0.2211	?
2	2.465	VV	0.1074	122.75827	0.9428	?
3	2.809	VB	0.0878	175.25298	1.3460	?
4	4.319	BV	0.1494	7.28323	0.0559	?
5	4.569	VV	0.1623	1.25465e4	96.3612	Formoterol-D6
6	5.350	VB	0.1882	16.00462	0.1229	?
7	8.795	BB	0.0612	16.60786	0.1276	?
8	8.922	BB	0.0568	10.78440	0.0828	?

Sample Name: GR-10-045 spl-2

Peak #	RetTime [min]	Type	Width [min]	Area [mAU*s]	Area %	Name
9	9.238	BB	0.0931	96.29121	0.7395	?

Totals : 1.30203e4

=====
*** End of Report ***