

Name: Salmeterol-D3

Lot#: GR-7-007

Test Date: 05/30/2025 (re-test date: 05/30/2030)

CAS No.: 497063-94-2

MF: C₂₅H₃₄D₃NO₄

MW: 418.58

Appearance: Off-White Solid

Purity: 97.2% by HPLC (average of two sample preparations); >98% atom D

¹H-NMR: Conforms

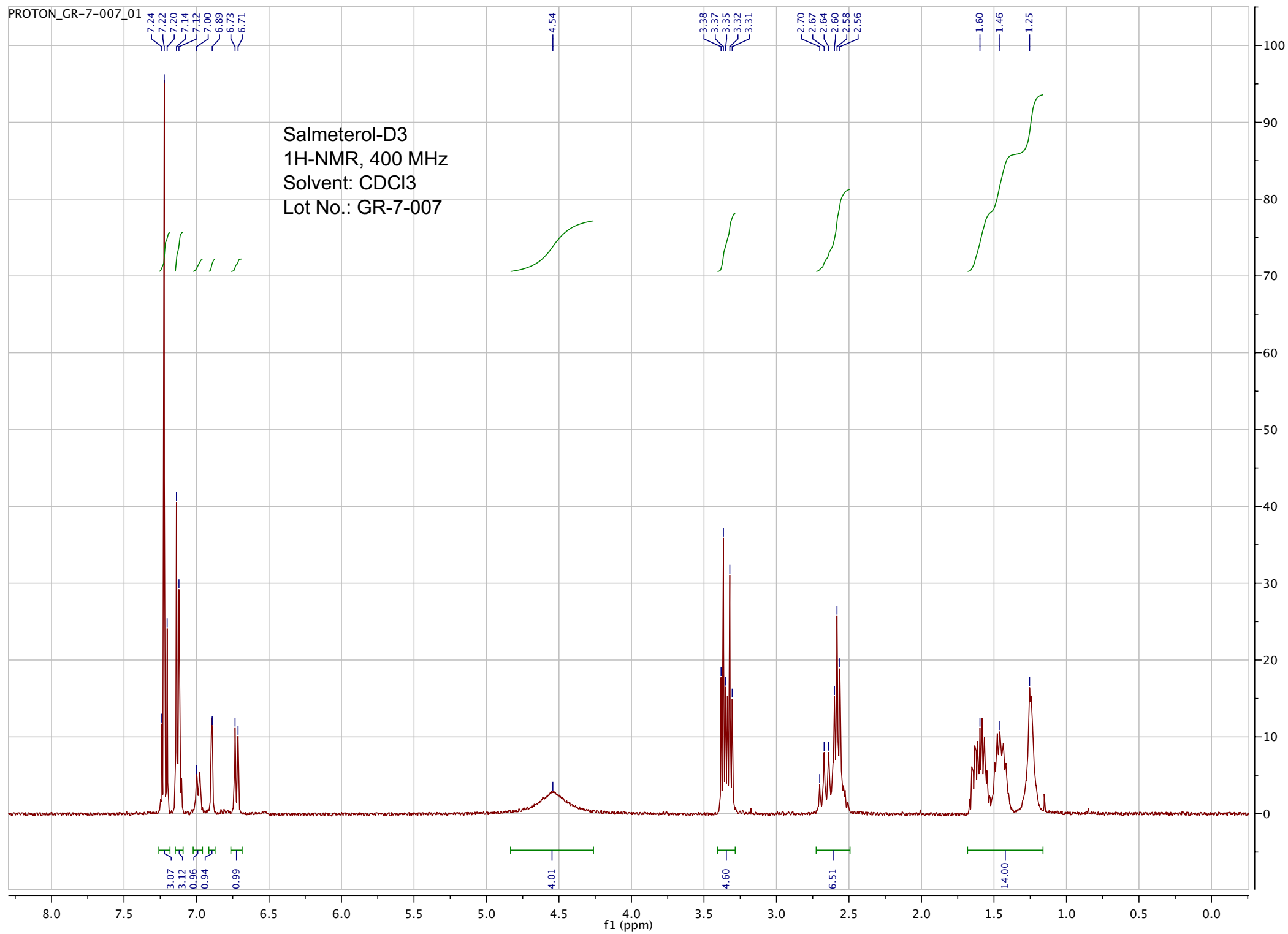
MS-ESI (+) Conforms (shows peak at m/z = 419.39 [M+H]⁺)

Storage Store at -18°C in a dry place away from direct sunlight

Approved by:

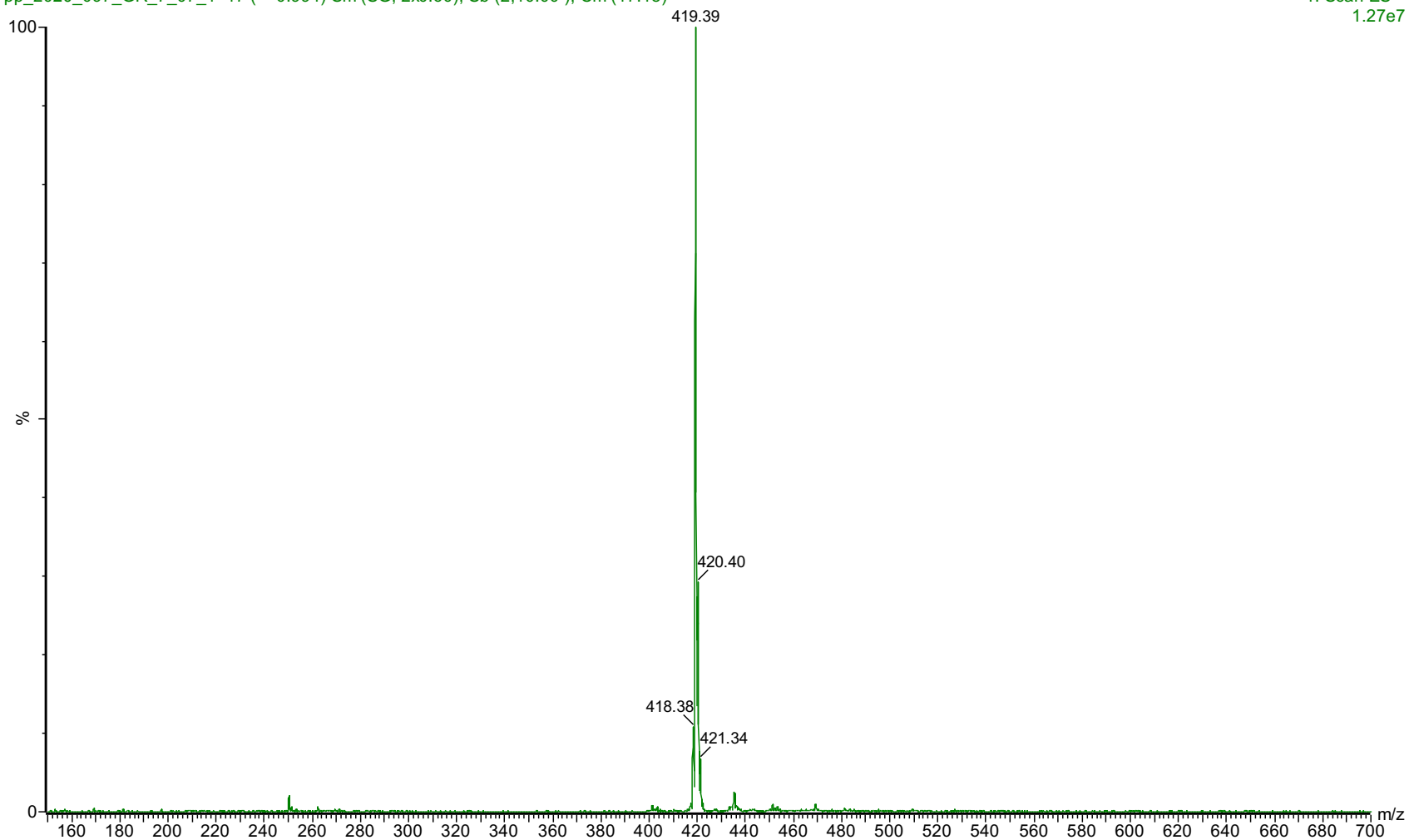
Date: 05/30/2025

Viorica Rusu, QC/QA Manager



pp_2020_097_GR_7_07_1 17 (0.994) Sm (SG, 2x0.60); Sb (2,10.00); Cm (17:18)

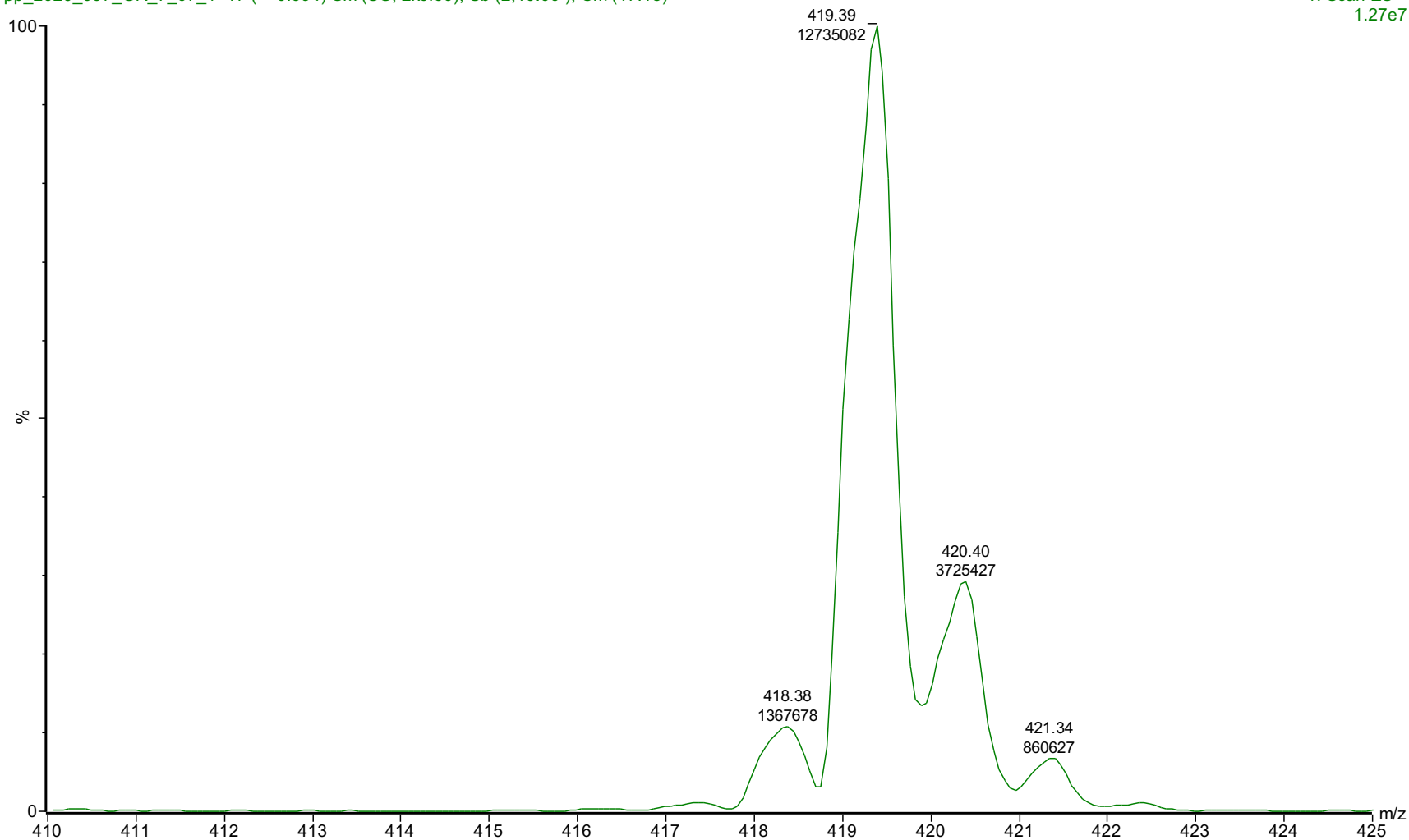
1: Scan ES+
1.27e7



ESI-MS spectrum for sample GR-7-007. Shows monoisotopic $[M+H]^+$ mass.

pp_2020_097_GR_7_07_1 17 (0.994) Sm (SG, 2x0.60); Sb (2,10.00); Cm (17:18)

1: Scan ES+
1.27e7



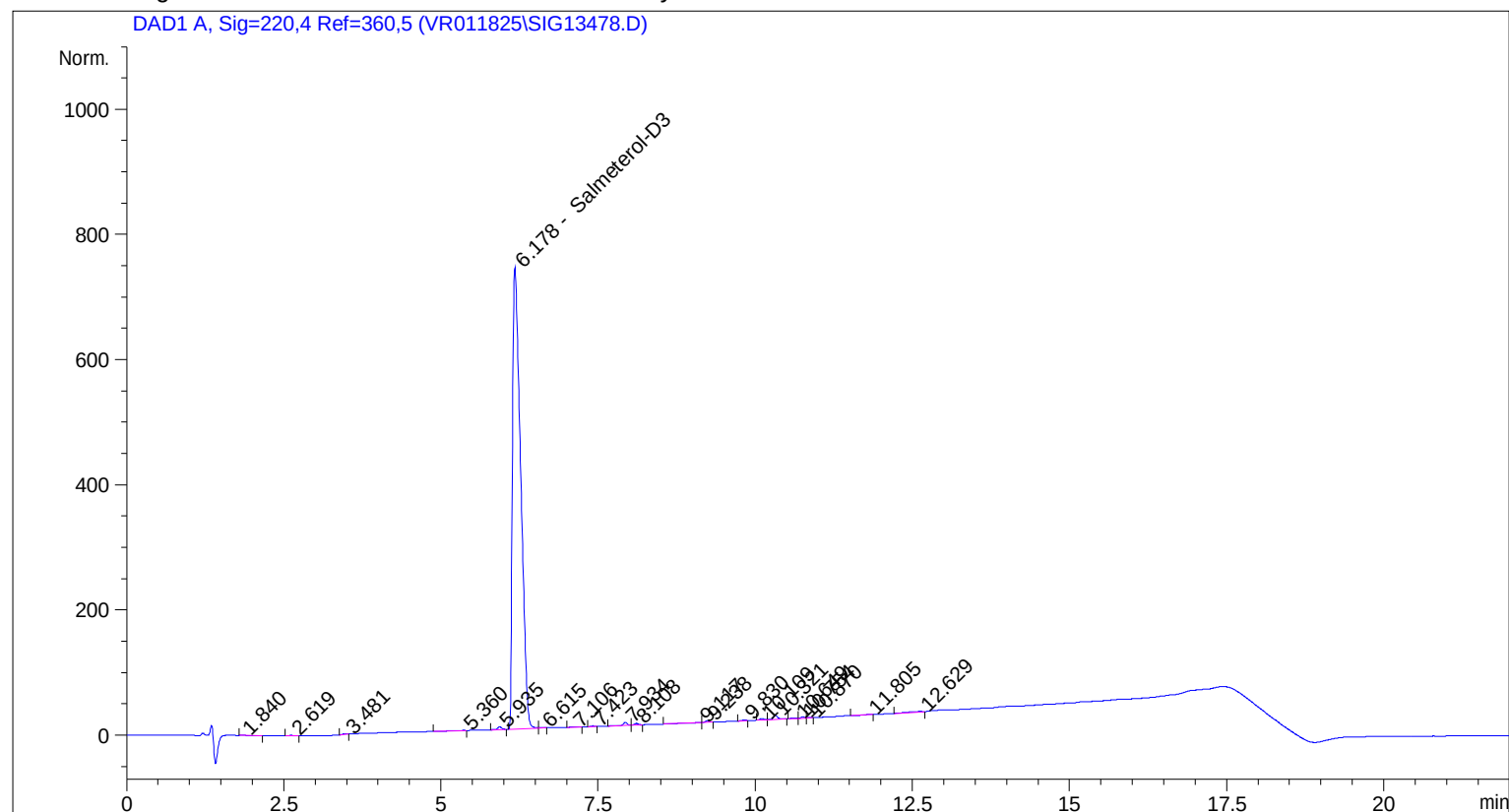
Expansion of above showing peak intensities. (as requested)

Sample Name: GR-7-007 spl-2

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Acq. Operator : vrusu
Acq. Instrument : Instrument 1 Location : Vial 53
Injection Date : 5/30/2025 1:16:16 PM Inj Volume : 10.0 µl

Acq. Method : C:\CHEM32\1\METHODS\VR053025_007.M
Last changed : 5/30/2025 1:15:08 PM by vrusu
Analysis Method : C:\CHEM32\1\METHODS\VR053025_007PM.M
Last changed : 5/30/2025 11:30:14 AM by vrusu



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Area Percent Report

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Sorted By : Signal
Calib. Data Modified : 5/30/2025 11:29:17 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	1.840	BB	0.1222	3.56131	0.0519	?
2	2.619	BB	0.0742	3.90644	0.0569	?
3	3.481	BB	0.0781	3.88940	0.0566	?
4	5.360	BB	0.1070	4.07286	0.0593	?
5	5.935	BB	0.0703	20.32586	0.2960	?
6	6.178	BV	0.1417	6678.54834	97.2659	Salmeterol-D3
7	6.615	VB	0.0777	3.04570	0.0444	?
8	7.106	BB	0.0970	4.18537	0.0610	?

Sample Name: GR-7-007 spl-2

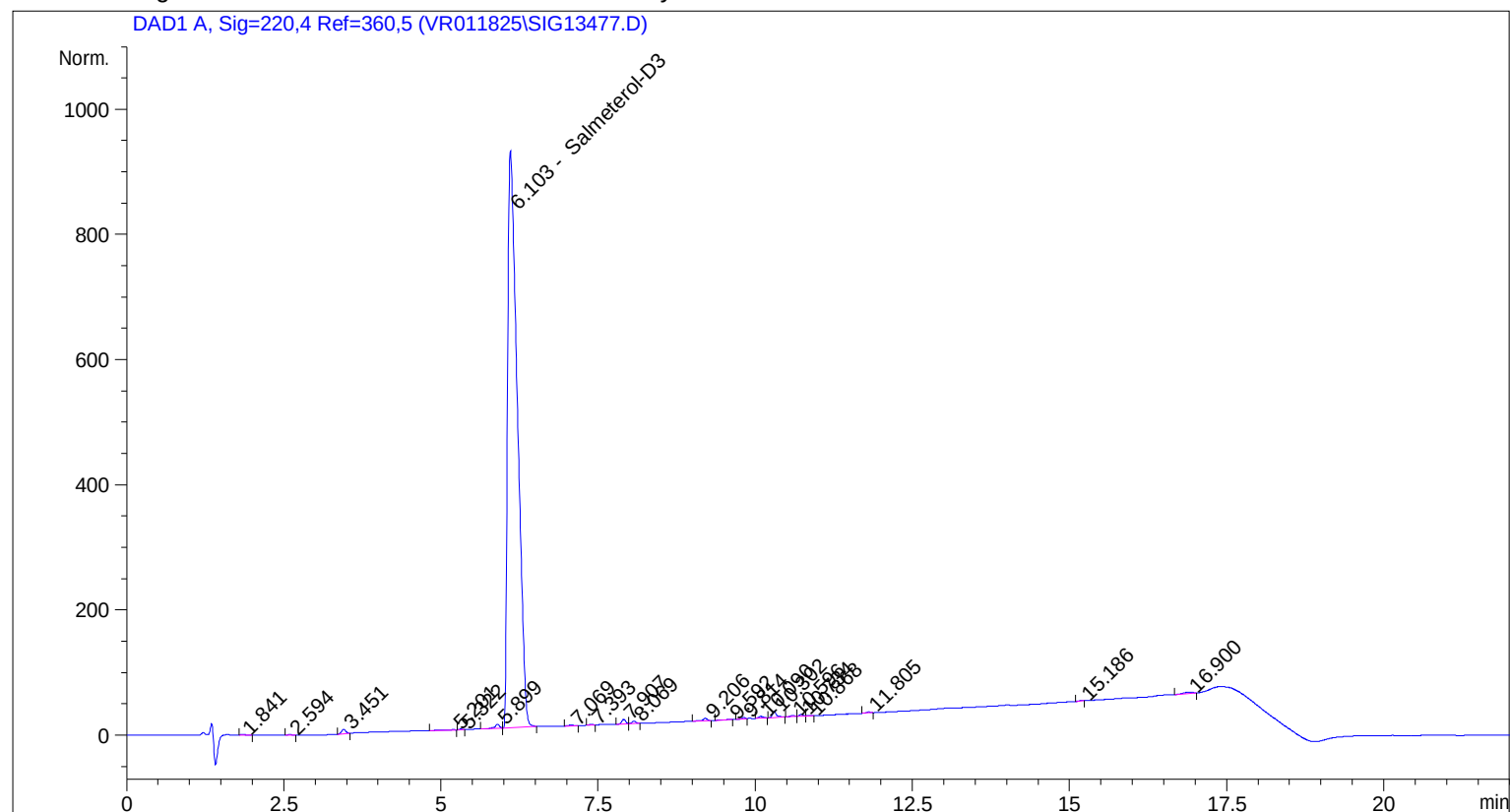
Peak #	RetTime [min]	Type	Width [min]	Area [mAU*s]	Area %	Name
9	7.423	BB	0.0653	3.36500	0.0490	?
10	7.934	BV	0.0669	21.68064	0.3158	?
11	8.108	VB	0.0667	11.35227	0.1653	?
12	9.117	BV	0.1449	5.74589	0.0837	?
13	9.238	VB	0.0648	12.35600	0.1800	?
14	9.830	BB	0.0578	5.41414	0.0789	?
15	10.109	BV	0.0775	10.51553	0.1531	?
16	10.321	VB	0.0704	34.64410	0.5046	?
17	10.649	BV	0.0999	7.03191	0.1024	?
18	10.754	VV	0.0687	10.32036	0.1503	?
19	10.870	VB	0.0663	3.45396	0.0503	?
20	11.805	BB	0.0710	5.58068	0.0813	?
21	12.629	BB	0.2208	13.28107	0.1934	?

Totals : 6866.27683

*** End of Report ***

Sample Name: GR-7-007

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Acq. Operator : vrusu
Acq. Instrument : Instrument 1 Location : Vial 52
Injection Date : 5/30/2025 11:08:23 AM Inj Volume : 10.0 µl
Acq. Method : C:\CHEM32\1\METHODS\VR053025_007.M
Last changed : 5/30/2025 11:07:11 AM by vrusu
Analysis Method : C:\CHEM32\1\METHODS\VR053025_007PM.M
Last changed : 5/30/2025 11:30:14 AM by vrusu



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Area Percent Report
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Sorted By : Signal
Calib. Data Modified : 5/30/2025 11:29:17 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	1.841	BB	0.0702	2.66304	0.0259	?
2	2.594	BB	0.0711	3.48949	0.0339	?
3	3.451	BB	0.0713	31.92756	0.3099	?
4	5.201	BB	0.2571	6.01518	0.0584	?
5	5.322	BB	0.0581	2.68968	0.0261	?
6	5.899	BB	0.0740	31.93466	0.3100	?
7	6.103	BB	0.1747	1.00112e4	97.1848	Salmeterol-D3
8	7.069	BB	0.0799	6.10082	0.0592	?

Sample Name: GR-7-007

Peak #	RetTime [min]	Type	Width [min]	Area [mAU*s]	Area %	Name
9	7.393	BB	0.0598	4.25940	0.0413	?
10	7.907	BV	0.0658	31.38803	0.3047	?
11	8.069	VB	0.0669	17.63782	0.1712	?
12	9.206	BB	0.0776	21.94108	0.2130	?
13	9.592	BB	0.1085	3.67453	0.0357	?
14	9.814	BV	0.0603	9.65687	0.0937	?
15	10.090	BB	0.0811	14.35751	0.1394	?
16	10.302	BB	0.0694	44.84340	0.4353	?
17	10.596	BV	0.0804	8.56247	0.0831	?
18	10.734	VV	0.0642	13.49059	0.1310	?
19	10.868	VB	0.0654	4.47383	0.0434	?
20	11.805	BB	0.0701	7.75709	0.0753	?
21	15.186	BB	0.0625	2.96727	0.0288	?
22	16.900	BB	0.1476	20.16490	0.1958	?

Totals : 1.03012e4

*** End of Report ***