

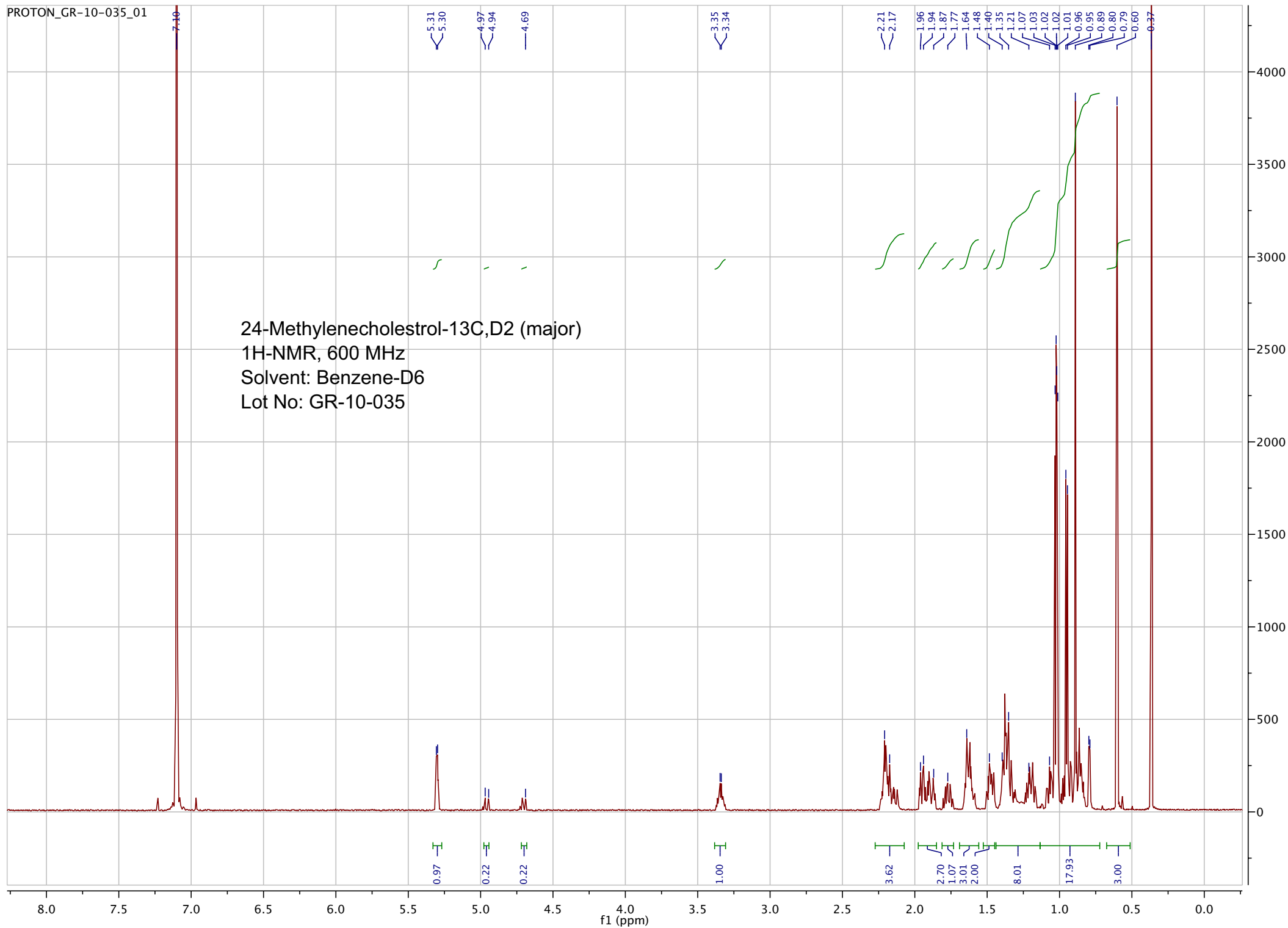
Name:	24-Methylenecholesterol-¹³C,D2 (major)
Lot#:	GR-10-035
Test Date:	04/29/2022 (re-test date: 04/29/2027)
CAS No.:	474-63-5 (unlabeled)
MF:	C ₂₇ ¹³ CH ₄₄ D ₂ O
MW:	401.68
Appearance:	White solid
Purity:	94.3% by HPLC (average of two sample preparations); 99% atom ¹³ C, 95% atom D
¹H-NMR:	Conforms
MS-ESI (+)	Conforms (shows peak at m/z = 384.69 [M-H ₂ O+H] ⁺)
Storage	Store at -18°C in a dry place away from direct sunlight

Approved by:

Date: 04/29/2022

Viorica Rusu, QC/QA Manager

24-Methylenecholesterol-13C,D2 (major)
1H-NMR, 600 MHz
Solvent: Benzene-D6
Lot No: GR-10-035



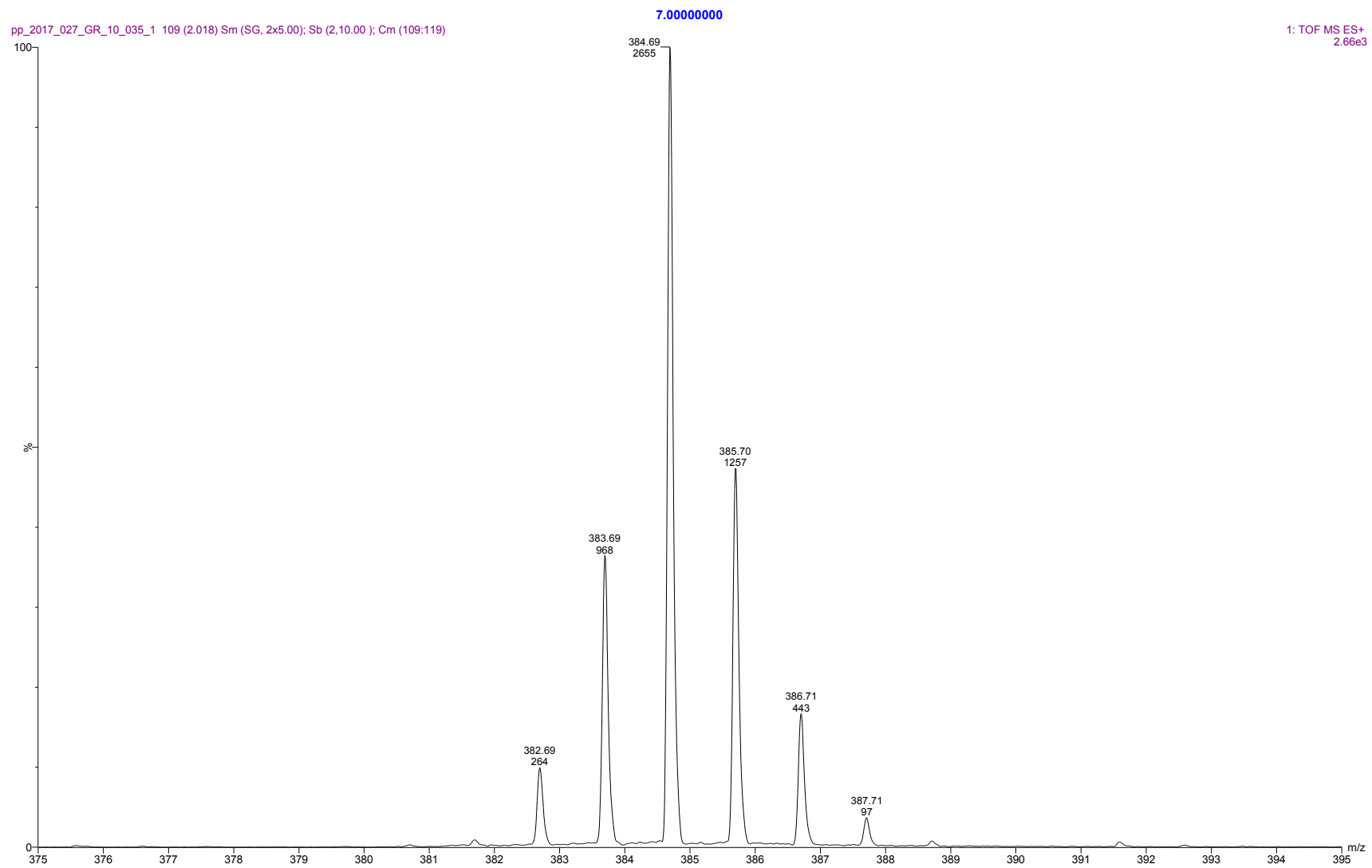
pp_2017_027_GR_10_035_1 109 (2.018) Sm (SG, 2x5.00); Sb (2,10.00); Cm (109:119)

7.00000000

1: TOF MS ES+
2.66e3



ESI-MS spectra for sample GR-10-035. Shows monoisotopic $[M+H]^+$ mass.

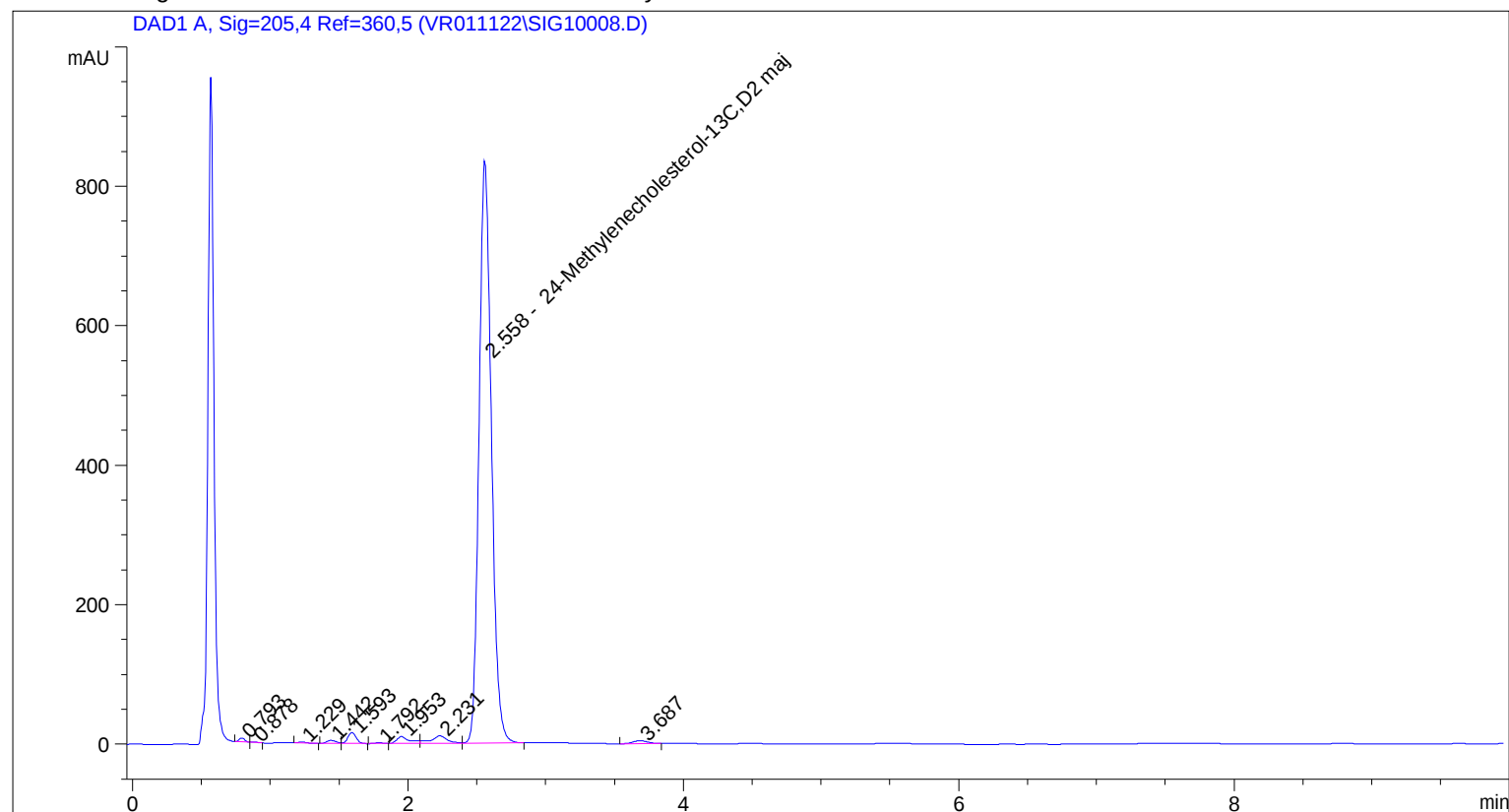


Expansion of above with intensity labels.

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Acq. Operator : vrusu
Acq. Instrument : Instrument 1 Location : Vial 15
Injection Date : 4/28/2022 1:04:21 PM Inj Volume : 10.0 µl

Acq. Method : C:\CHEM32\1\METHODS\VR042822_035.M
Last changed : 4/28/2022 1:03:13 PM by vrusu
Analysis Method : C:\CHEM32\1\METHODS\VR042922_035PM.M
Last changed : 4/29/2022 1:32:22 PM by vrusu



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Area Percent Report
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Sorted By : Signal
Calib. Data Modified : 4/29/2022 1:29:58 PM
Multiplier: : 1.0000
Dilution: : 1.0000
Use Multiplier & Dilution Factor with ISTDs

Signal 1: DAD1 A, Sig=205,4 Ref=360,5

Peak #	RetTime [min]	Type	Width [min]	Area [mAU*s]	Area %	Name
1	0.793	BB	0.0444	15.43512	0.2815	?
2	0.878	BB	0.0479	1.84641	0.0337	?
3	1.229	BB	0.0550	4.80003	0.0875	?
4	1.442	BV	0.0768	20.20872	0.3685	?
5	1.593	VB	0.0638	65.99859	1.2035	?
6	1.792	BB	0.0699	4.82490	0.0880	?
7	1.953	BV	0.0921	63.44004	1.1569	?
8	2.231	VV	0.1151	86.55783	1.5784	?

Sample Name: GR-10-035

Peak #	RetTime [min]	Type	Width [min]	Area [mAU*s]	Area %	Name
9	2.558	VB	0.0965	5190.13623	94.6443	24-Methylenecholesterol-13C,D2 maj
10	3.687	BB	0.1192	30.58867	0.5578	?

Totals : 5483.83655

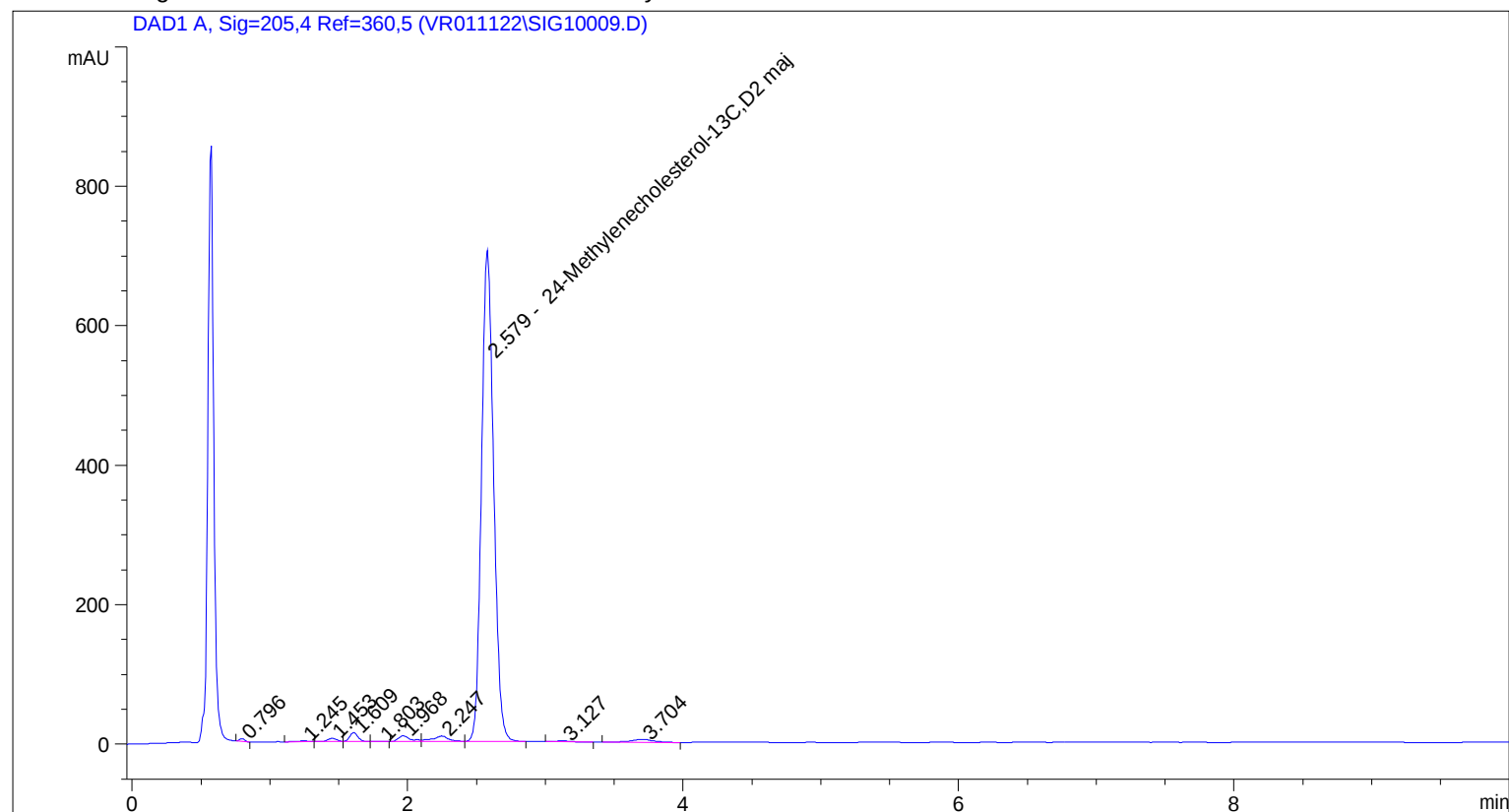
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*** End of Report ***

Sample Name: GR-10-035 spl-2

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Acq. Operator   : vrusu
Acq. Instrument : Instrument 1                Location : Vial 16
Injection Date  : 4/28/2022 1:17:21 PM
                                           Inj Volume : 10.0 µl
Acq. Method     : C:\CHEM32\1\METHODS\VR042822_035.M
Last changed    : 4/28/2022 1:16:16 PM by vrusu
Analysis Method : C:\CHEM32\1\METHODS\VR042922_035PM.M
Last changed    : 4/29/2022 1:32:22 PM by vrusu
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                        Area Percent Report
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Sorted By           :      Signal
Calib. Data Modified :      4/29/2022 1:29:58 PM
Multiplier:         :      1.0000
Dilution:           :      1.0000
Use Multiplier & Dilution Factor with ISTDs

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Signal 1: DAD1 A, Sig=205,4 Ref=360,5

Peak #	RetTime [min]	Type	Width [min]	Area [mAU*s]	Area %	Name
1	0.796	BB	0.0436	10.81257	0.2361	?
2	1.245	BB	0.0643	6.58422	0.1438	?
3	1.453	BV	0.0727	21.93287	0.4790	?
4	1.609	VB	0.0637	53.28152	1.1635	?
5	1.803	BB	0.0658	2.84412	0.0621	?
6	1.968	BV	0.0896	51.09493	1.1158	?
7	2.247	VV	0.1168	66.43400	1.4508	?
8	2.579	VB	0.0953	4304.29492	93.9960	24-Methylenecholesterol-13C,D2 maj

Sample Name: GR-10-035 spl-2

Peak #	RetTime [min]	Type	Width [min]	Area [mAU*s]	Area %	Name
9	3.127	BB	0.1171	8.97779	0.1961	?
10	3.704	BB	0.1753	52.97467	1.1568	?

Totals : 4579.23161

*** End of Report ***