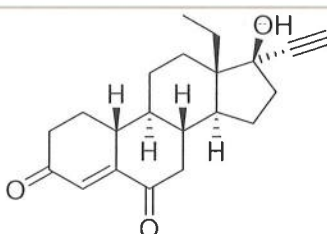


Certificate of Analysis

Name of Product: 6-Keto-levonorgestrel <i>(Levonorgestrel EP imp J)</i>		Lot Number: VB-40-35-082817
Manufacture Date: 08/28/17	Retested On: 03/02/23	Next Retest Date: 03/01/26
Recommended Storage Conditions:		
<input type="checkbox"/> Ambient atmosphere <input checked="" type="checkbox"/> Inert atmosphere <input type="checkbox"/> Ambient temperature <input checked="" type="checkbox"/> 2-8°C (refrigeration) <input type="checkbox"/> -20°C or below (freezer)		

Structure: 	Molecular Formula: C ₂₁ H ₂₆ O ₃
	Molecular Weight: 326.44
	CAS Number: 1175109-63-3


Appearance: Pale yellow solid

Identity: ¹H-NMR - conforms to structure

MS(ESI+ve): [M+H]⁺ = 327.13; [M+NH₄]⁺ = 344.07 - conforms to structure

Purity: 98.5% by AUC at 254 nm (LC/MS)

Dalton Pharma Services hereby certifies that the above information is authentic and accurate.

 <hr style="width: 50%; margin: auto;"/> Xuejun Liu, R&D Chemistry Supervisor	Date: 03106123
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Product name: 6-Keto-levonorgestrel

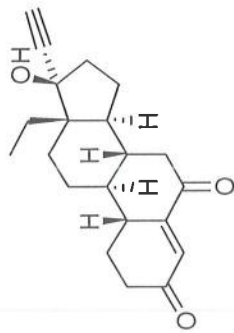
Lot number: VB-40-35-082817

RDS#02732

Page 1 of 1

Research Use Only
Not for Food and Drug use

VB-40-35, 1H-NMR, DMSO-d6, 03/02/23 Retest



C₂₁H₂₆O₃

03/03/23
1/8

3.366
3.313
2.569
2.500
1.976
1.939
1.562
1.405
1.387
0.924

6.185
6.178
5.338

0.1
1.0
4.0
2.0
4.0
2.0
1.0

0.1
0.1

10.0
9.0
8.0
7.0
6.0
5.0
4.0
3.0
2.0
1.0
0.0

ppm (t1)

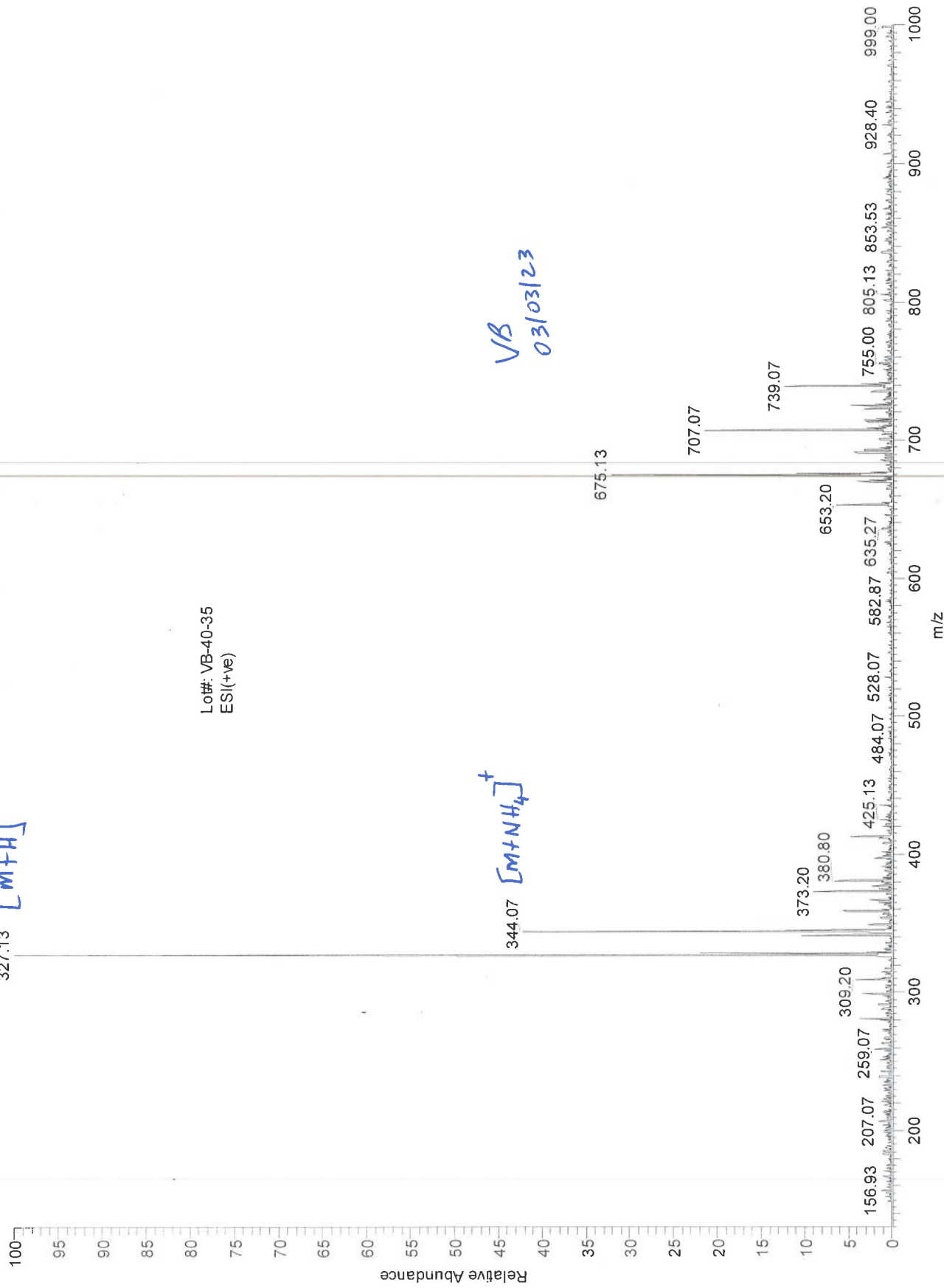
VB-40-35 #147-151 RT: 5.00-5.14 AV: 5 NL: 2.87E5
T: + p ESI Full ms [50.00-2000.00]

Lot#: VB-40-35
ESI(+ve)

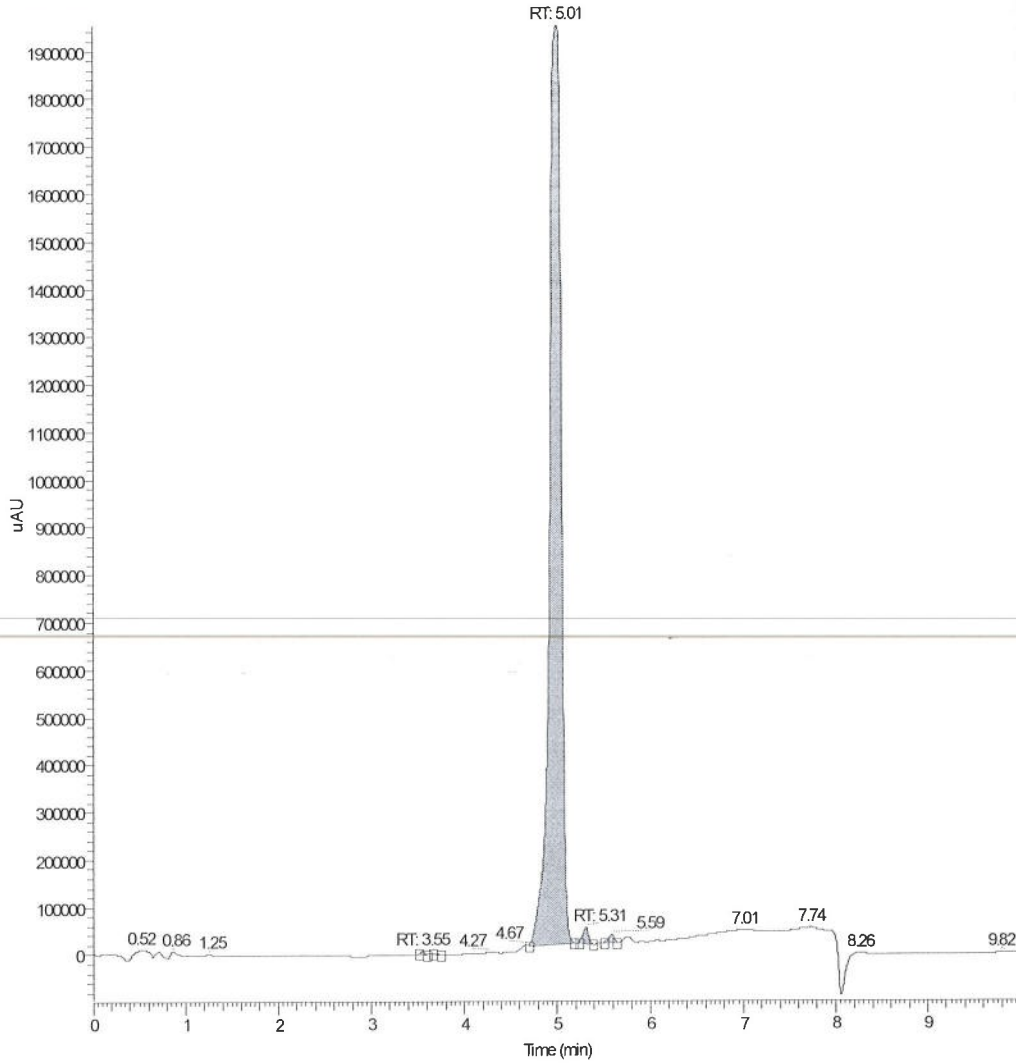
VB
03/03/23

327.13 [M+H]⁺

344.07 [M+NH₄]⁺



RT: 0.00 - 9.98



NL:
1.95E6
Chanel B
UV
VB-40-35

VB
03/03/23

PEAK LIST

VB-40-35.RAW

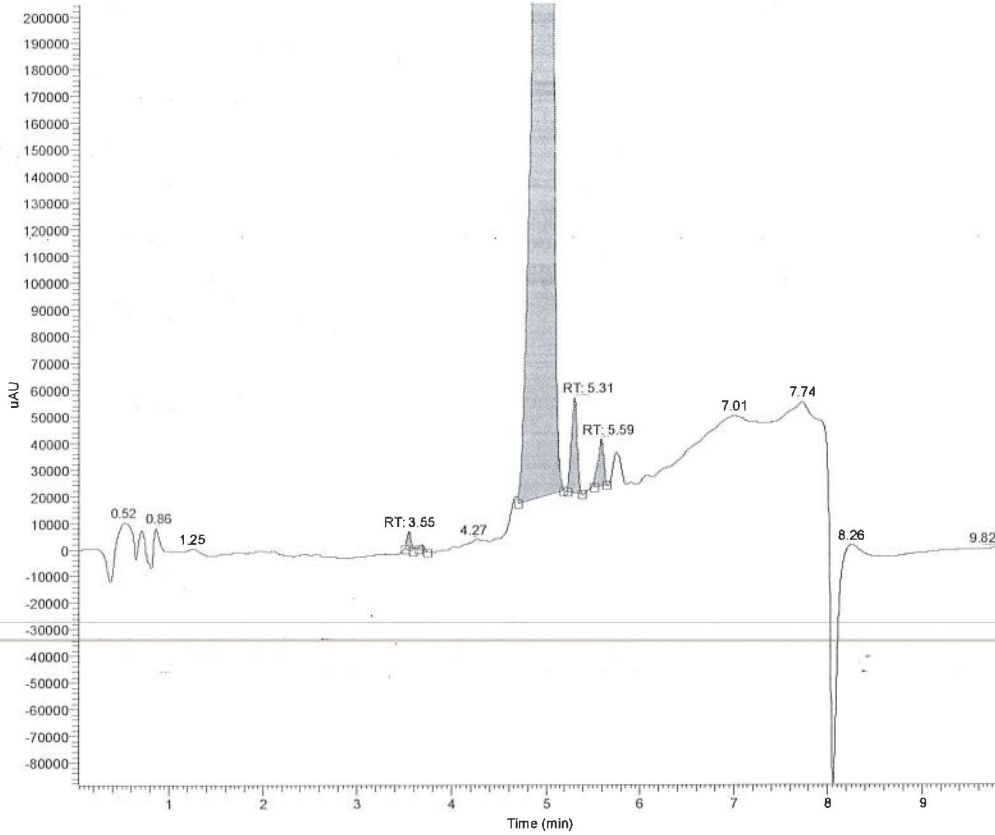
RT: 2.52 - 6.99

Number of detected peaks: 5 at 245 nm Wavelength

Apex RT	Start RT	End RT	Area	%Area	Height	%Height
3.55	3.51	3.59	23202.761	0.13	7116.259	0.36
3.69	3.65	3.74	8500.040	0.05	2254.181	0.11
5.01	4.70	5.18	16999929.67	98.47	1931698.348	96.87
5.31	5.24	5.39	157621.713	0.91	35873.422	1.80
5.59	5.51	5.64	74574.147	0.43	17199.938	0.86

RT: 0.04 - 9.83

NL:
1.95E6
Channel B
UV
VB-40-35



VB
03/03/23

PEAK LIST

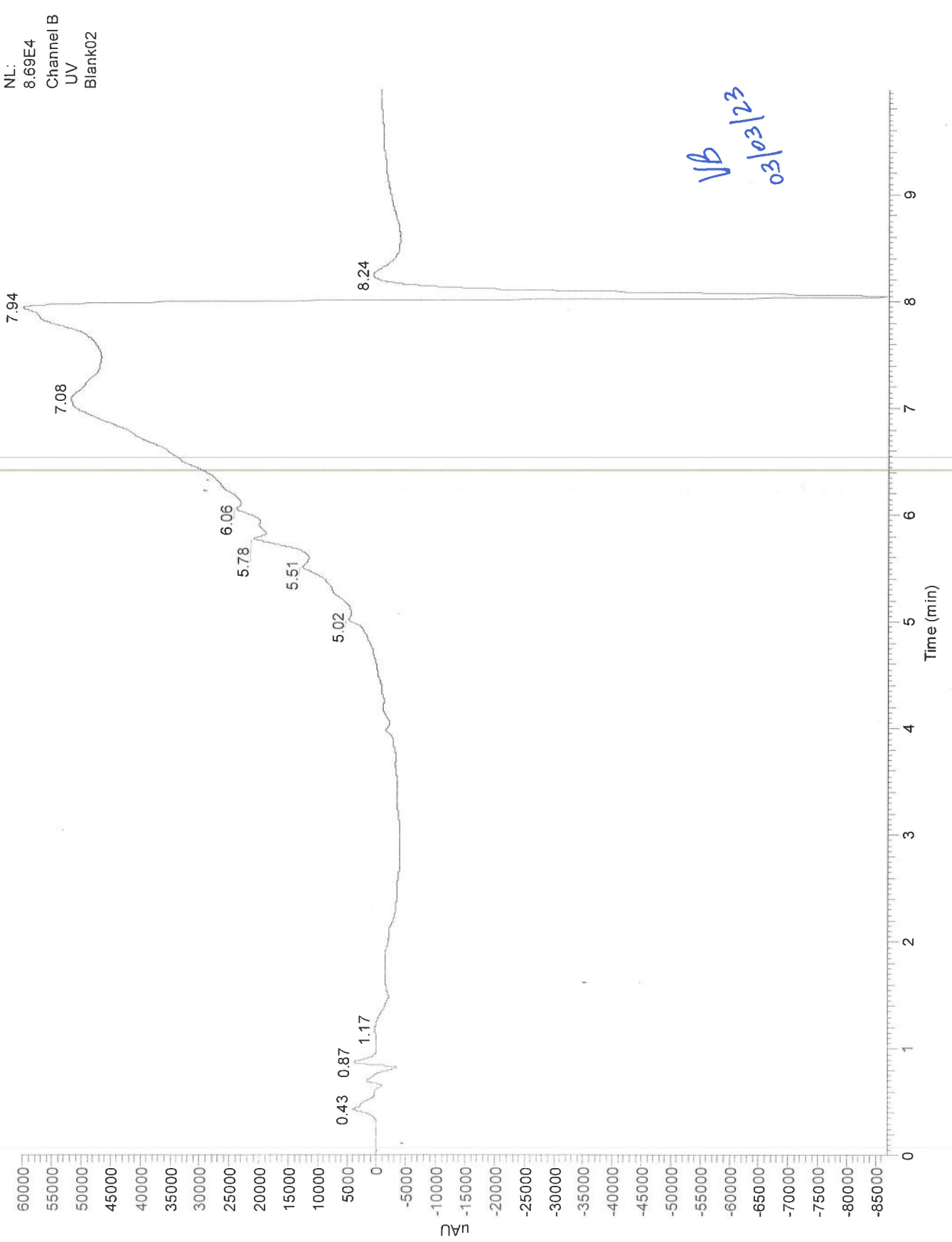
VB-40-35.RAW

RT: 2.52 - 6.99

Number of detected peaks: 5 at 245 nm Wavelength

Apex RT	Start RT	End RT	Area	%Area	Height	%Height
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3.69	3.65	3.74	8500.040	0.05	2254.181	0.11
5.01	4.70	5.18	16999929.67	98.47	1931698.348	96.87
5.31	5.24	5.39	157621.713	0.91	35873.422	1.80
5.59	5.51	5.64	74574.147	0.43	17199.938	0.86

RT: 0.00 - 9.98



NL:
8.69E4
Channel B
UV
Blank02

VB
03/03/23