Table 1. Comparison of relative concentrations of individual FAMEs calculated from GC/MS[a] and from RP-HPLC/APCI-MS[b] of TAGs of *Pectinatus frisingensis* DSM 20465.

	GC PlsEtn	LC PlsEtn	GC PlsSer	LC PlsSer	GC PlsGro	LC PlsGro	GC PlsCho	LC PlsCho
11:0	18.1	17.5	16.4	16.0	16.5	16.2	22.6	22.0
12:0	0.8	1.0	0.3	0.1	0.4	0.2	0.8	0.7
13:0	6.2	6.1	6.8	6.2	5.3	5.1	8.6	8.4
14:0	1.7	1.8	0.6	0.4	1.0	0.9	1.6	1.5
15:0	27.1	28.2	26.2	27.1	17.6	17.2	15.1	14.9
16:0	1.8	1.8	0.3	0.2	2.2	2.4	1.5	1.4
17:0	5.0	4.9	3.9	4.0	4.7	4.8	2.0	2.3
18:0	1.2	1.1	2.0	2.1	1.6	1.4	1.7	1.8
15:1	5.9	5.8	3.0	2.9	5.8	6.1	7.4	7.1
16:1	0.8	1.0	1.1	1.0	1.3	1.5	4.0	4.2
c-17:0	10.6	10.1	16.0	15.7	14.9	15.1	16.6	16.8
18:1	4.8	4.9	8.7	8.4	6.2	6.3	5.7	6.1
c-19:0	16.0	15.8	14.7	15.9	22.5	22.8	12.4	12.8
Av. rel. error %[c]	-	2.6	-	-14.4	-	-5.0	-	-0.1

[a] Calculated according to Holčapek M, Lísa M, Jandera P, Kabátová N (2005) Quantitation of triacylglycerols in plant oils using HPLC with APCI-MS, evaporative light-scattering, and UV detection. J Sep Sci 28:1315-1333

[b] Calculated as the sum of relative contributions of individual FAs in identified TAGs.

[c] Calculated as average relative difference between LC and GC determinations for fatty acids ≥1% according to the formula:

$$k_t = \frac{y_t}{y_{t-1}} \qquad \delta_t = \frac{\Delta y_t}{y_{t-1}} = \frac{y_t - y_{t-1}}{y_{t-1}} = k_t - 1$$

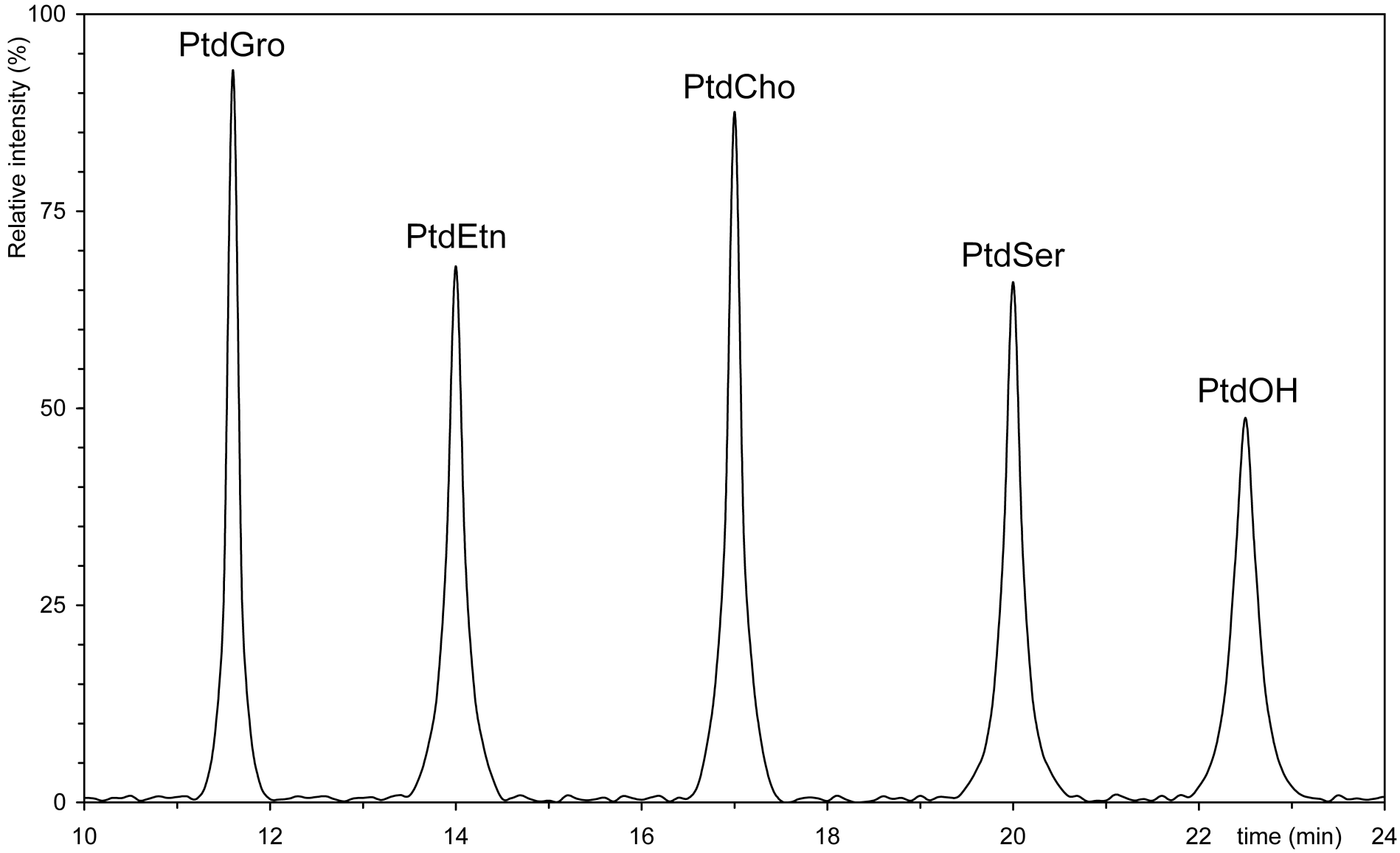
$$\bar{k} = \sqrt[n]{\prod_{t=1}^{n} k_t}$$

$$\bar{\delta} = \bar{k} - 1$$

Picolinyl esters of FAs (Rezanka 1990). A solution of potassium *tert*-butoxide in tetrahydrofuran (0.5 mL, 1.0 M) was added to nicotinyl alcohol (1 mL). After mixing, the appropriate fatty acid methyl esters (~0.5 mg) in dry dichloromethane (1 mL) were added, and the mixture was held at 40 °C for 30 min in a closed vial. After cooling to room temperature, water and hexane were added, and the organic phase was collected, dried over anhydrous sodium sulfate, and evaporated.

A fatty acid picolinyl ester mixture was analyzed in a GC-MS system consisting of Varian 450-GC, Varian 240-MS ion trap detector with electron impact ionization, and CombiPal autosampler (CTC, USA). Injection temperature (splitless injection) was 100 °C, and an Ultra-1 capillary column was used. The temperature program was as follows: 100 °C for 1 min, subsequently increasing at 20 °C/min to 180 °C and at 2 °C/min to 280 °C, which was maintained for 1 min. The carrier gas was helium at a linear velocity of 60 cm/s. All spectra were scanned within the range *m/z* 70-650.

Rezanka, T. (1990) Identification of very long polyenoic acids as picolinyl esters by Ag^{+} ion-exchange high-performance liquid-chromatography, reversed-phase high-performance liquid-chromatography and gas-chromatography mass-spectrometry. *J Chromatogr* **513**: 344-348.


PtdGro
PtdEtn
PtdCho
PtdSer
PtdOH
Relative intensity (%)
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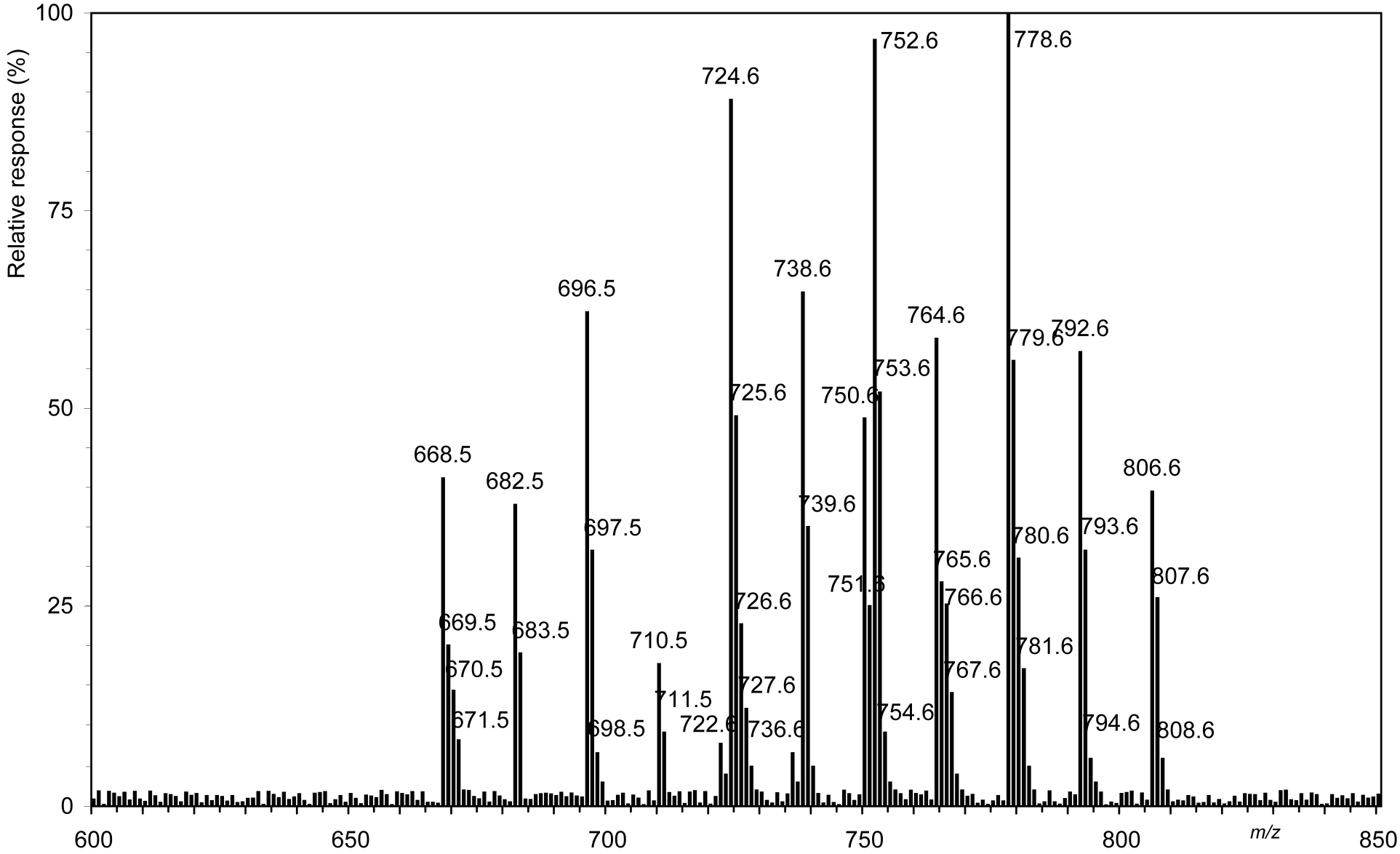
75
50
25
0
10
12
14
16
18
20
22
24
time (min)


Relative response (%)
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75
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25
0
600
650
700
750
800
850
m/z
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738.6
752.6
764.6
778.6
669.5
670.5
671.5
683.5
697.5
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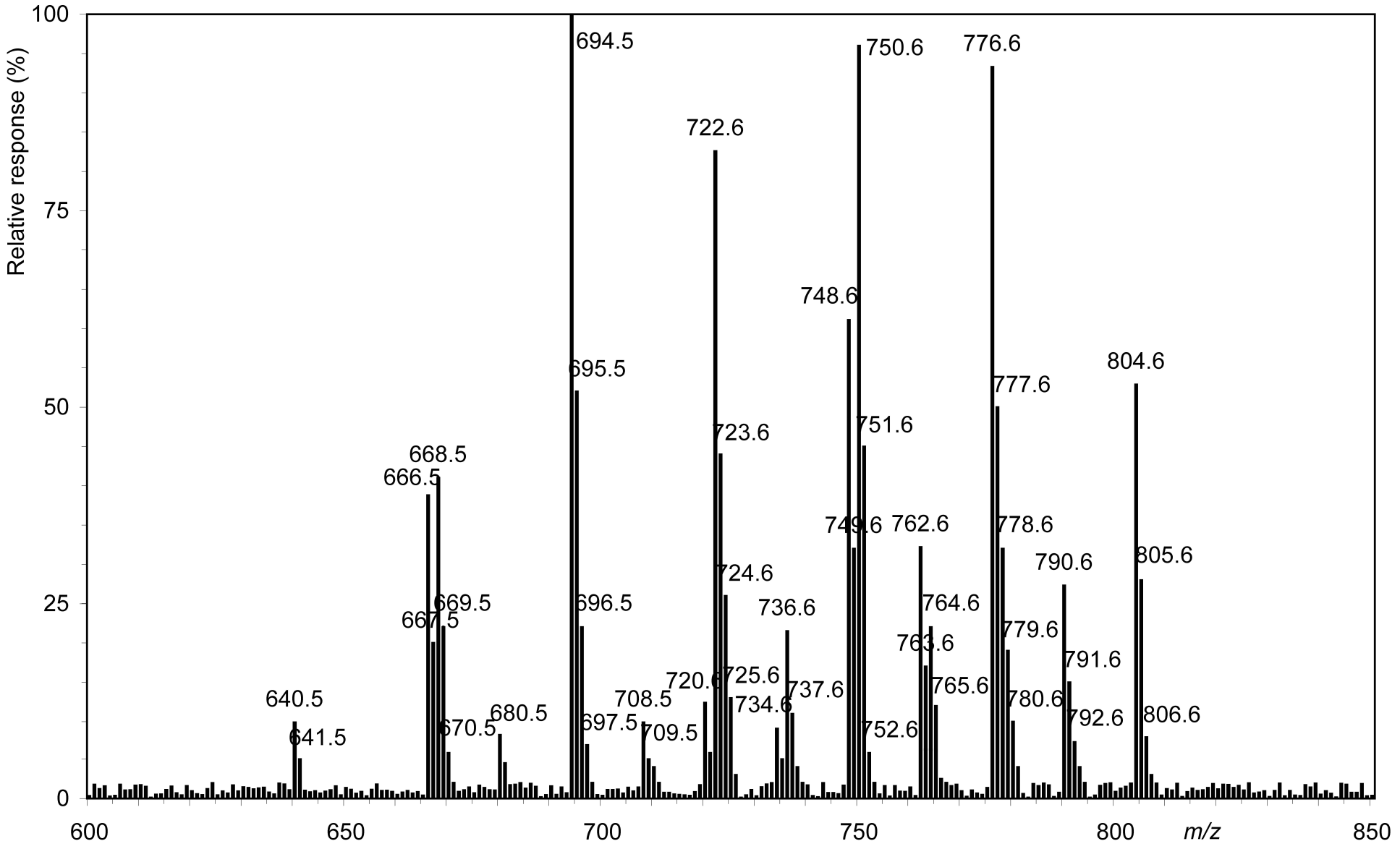
Relative response (%)
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600
650
700
750
800
850
m/z
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776.6
748.6
695.5
804.6
777.6
723.6
751.6
668.5
666.5
749.6
762.6
778.6
724.6
790.6
805.6
669.5
696.5
736.6
764.6
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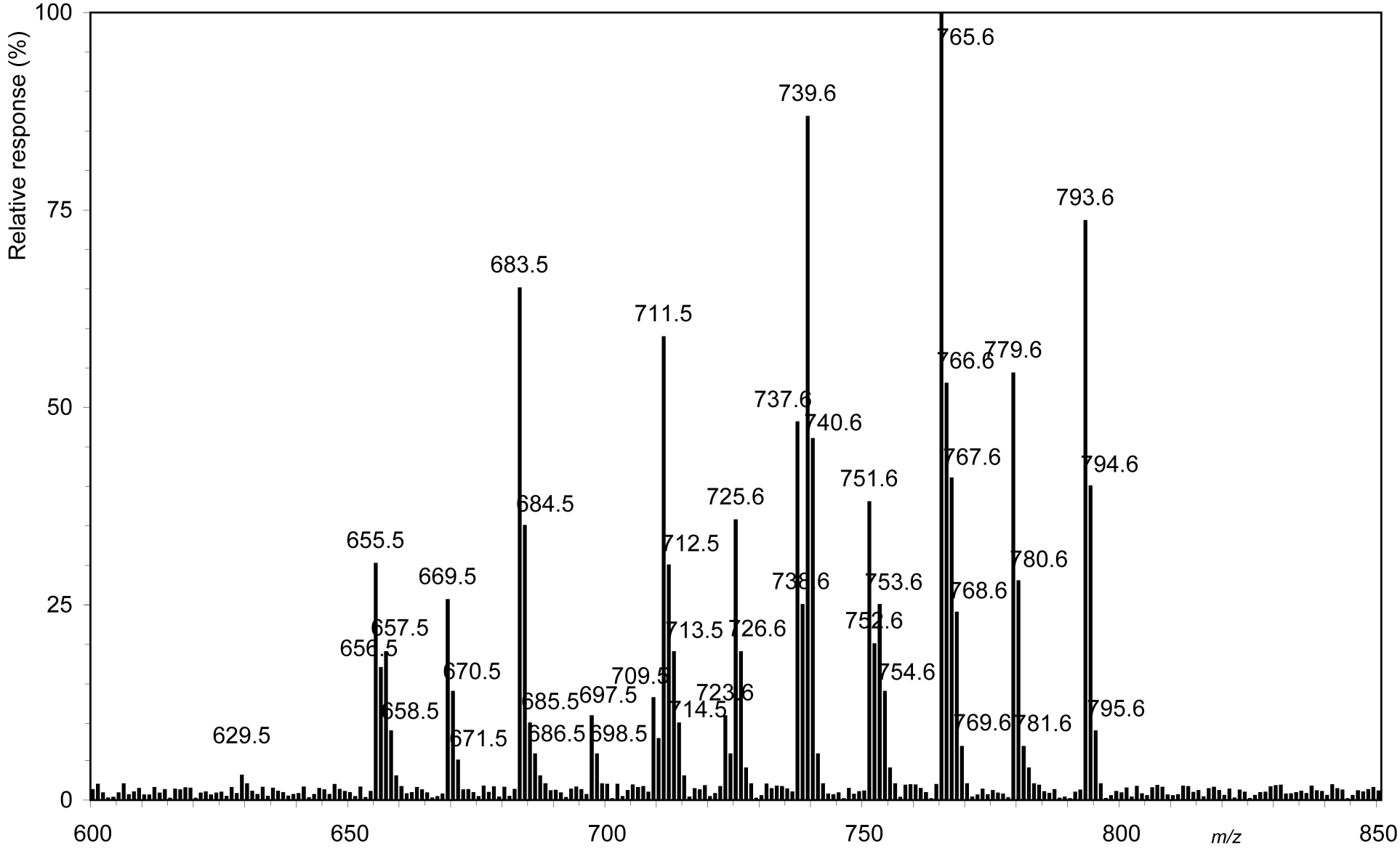
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25
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600
650
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m/z
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711.5
779.6
766.6
737.6
740.6
767.6
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725.6
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754.6
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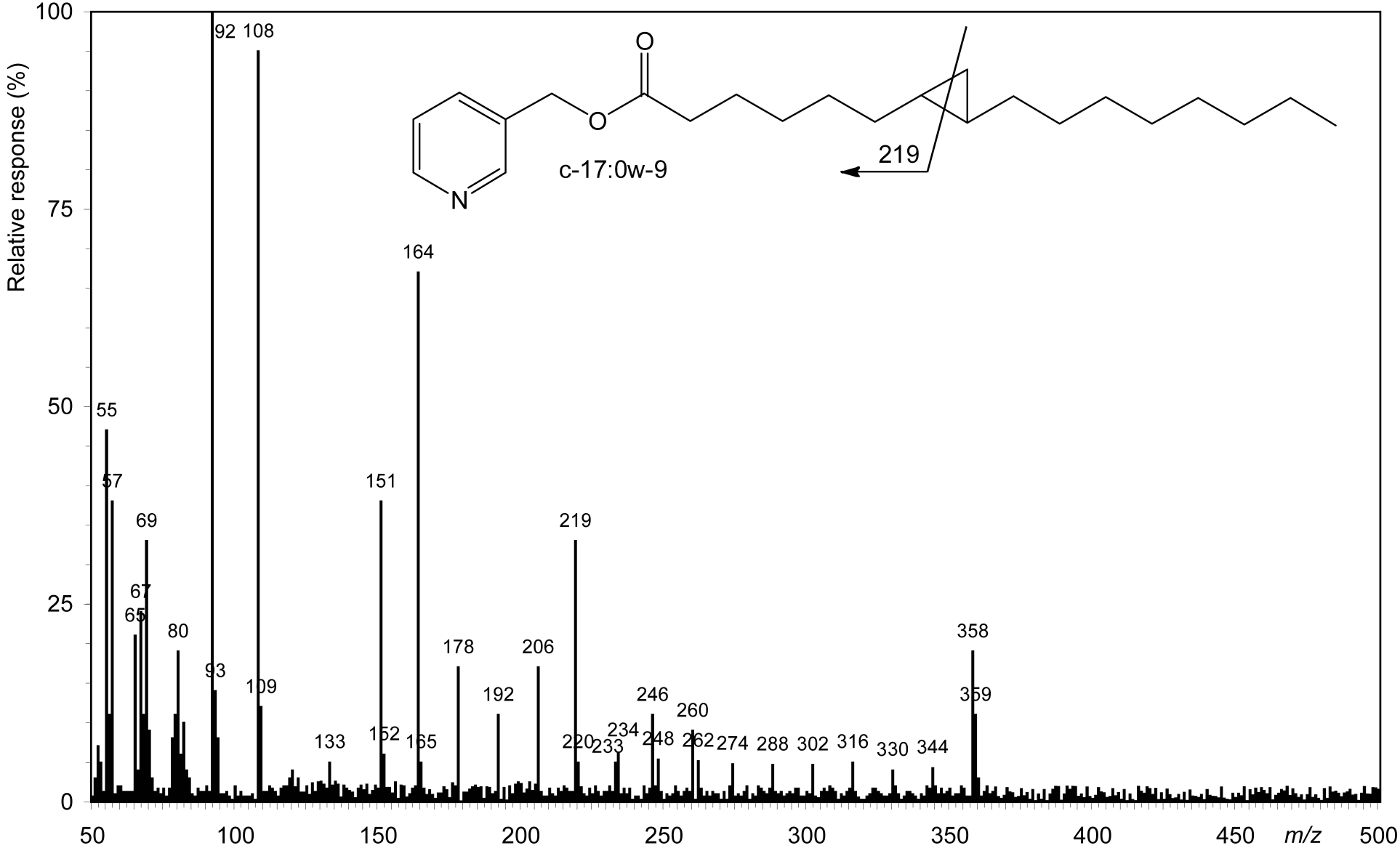
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219
220
233
234
246
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260
262
274
288
302
316
330
344
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O
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219
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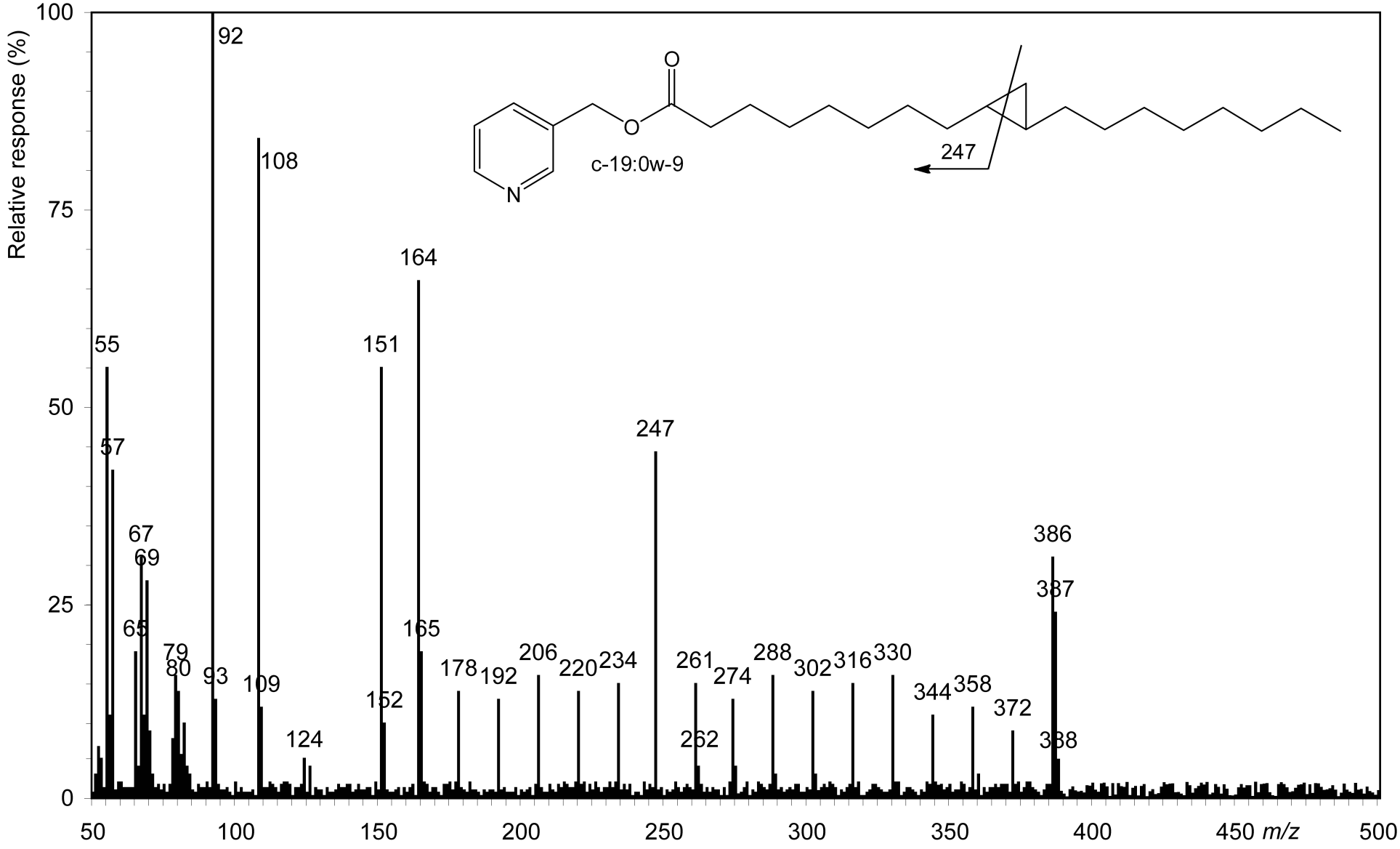
100
150
200
250
300
350
400
450
m/z
500


Relative response (%)
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0
50
100
150
200
250
300
350
400
450 m/z
500
92
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164
55
151
247
57
67
69
386
387
65
165
79
80
93
109
178
192
206
220
234
261
274
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302
316
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358
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124
152
262
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O
O
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