

1/40

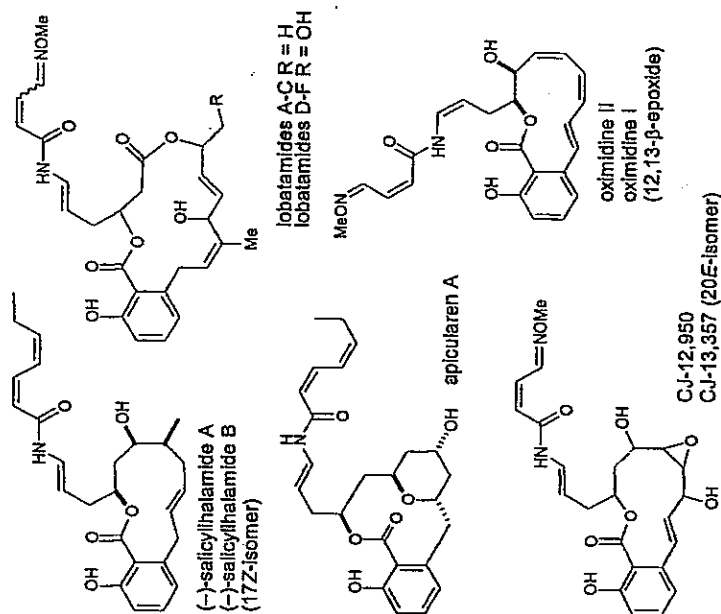


Fig. 1

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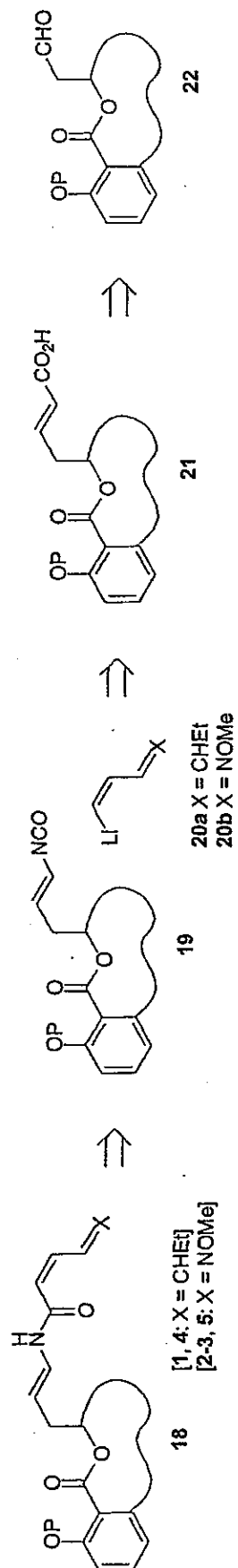


Fig. 2

3/40

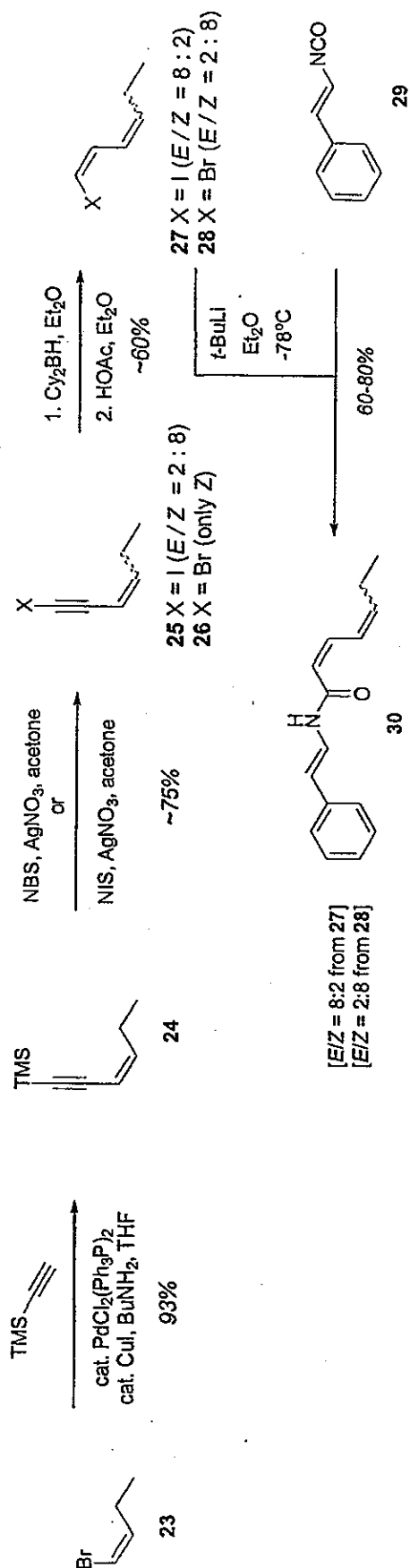


Fig. 3

4/40

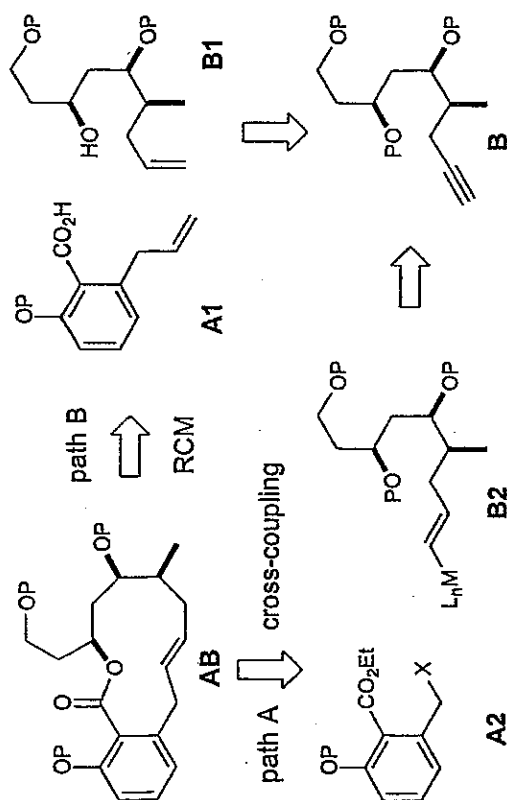


Fig. 4

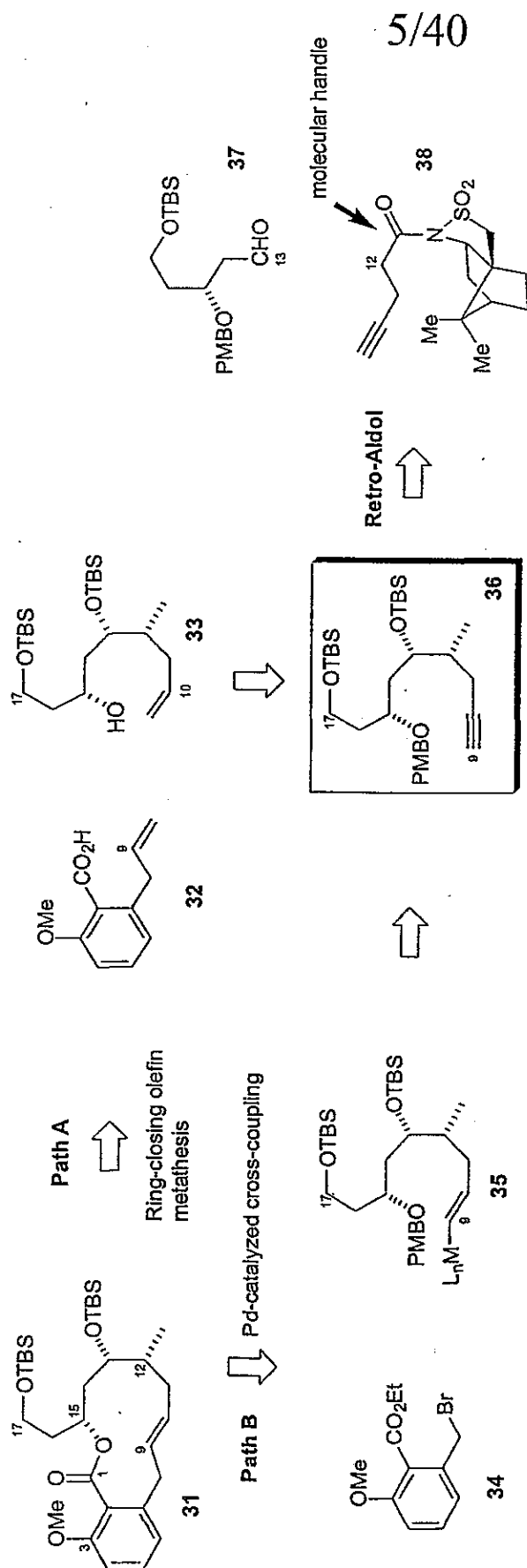


Fig. 5

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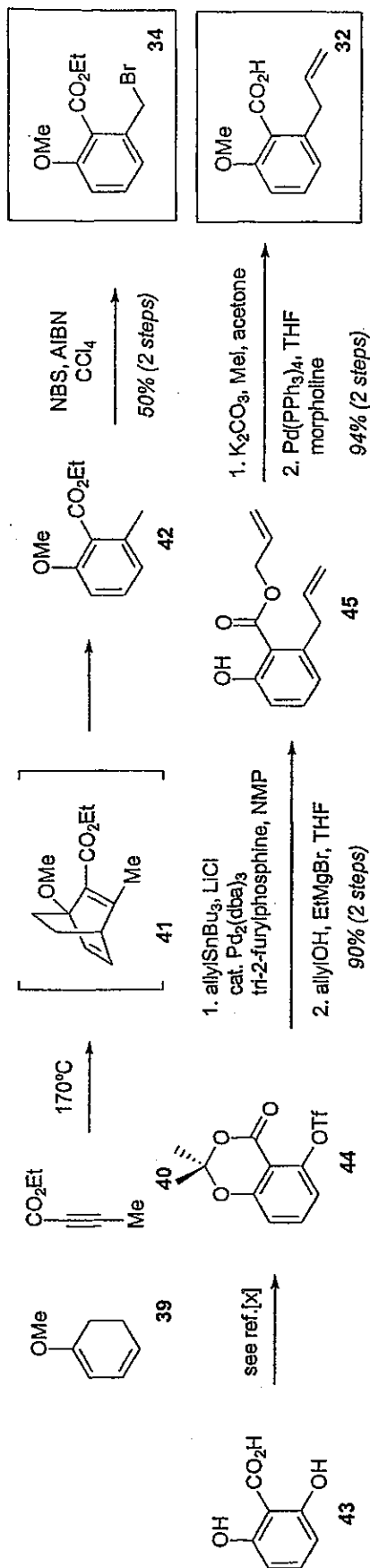


Fig. 6

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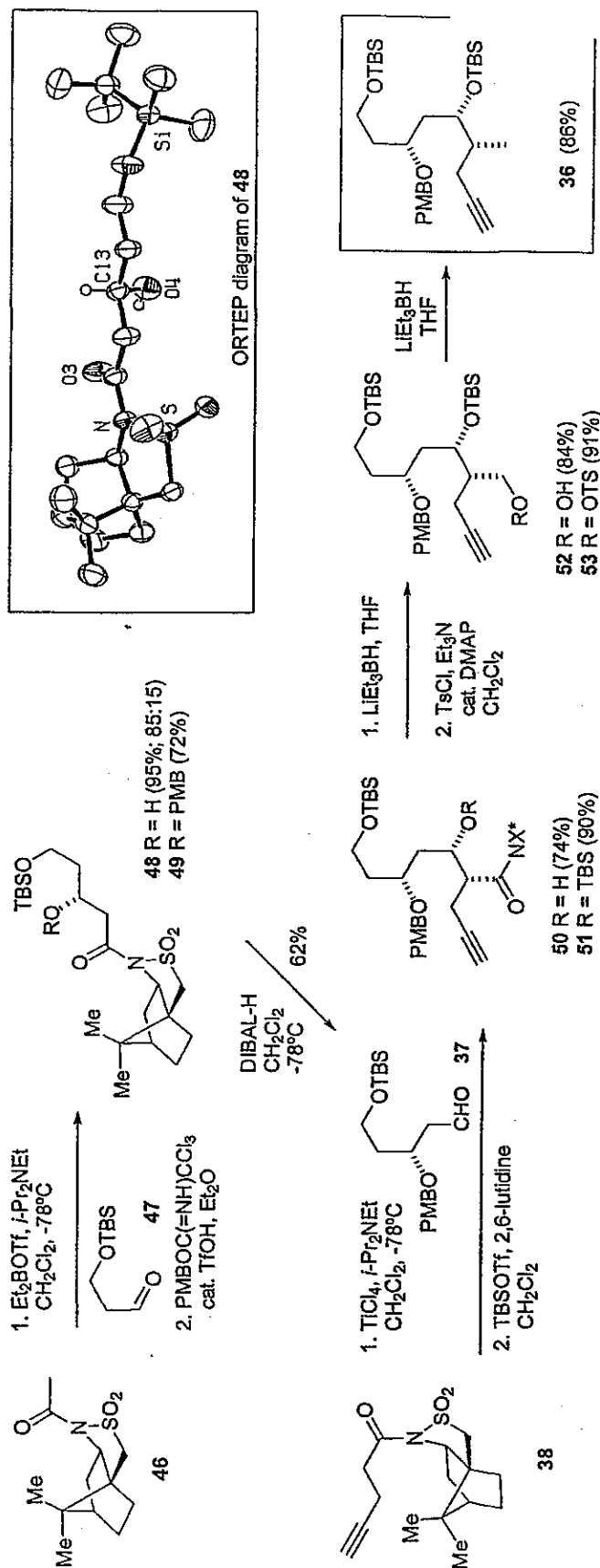


Fig. 7

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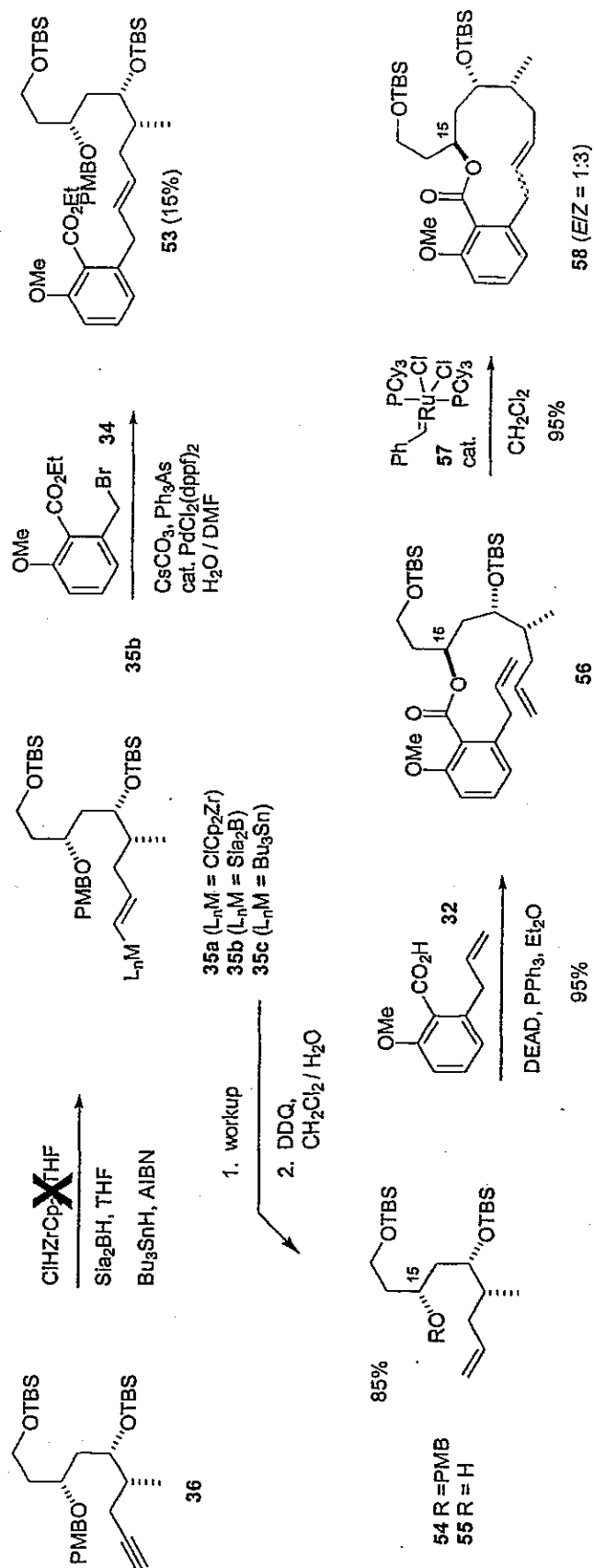


Fig. 8

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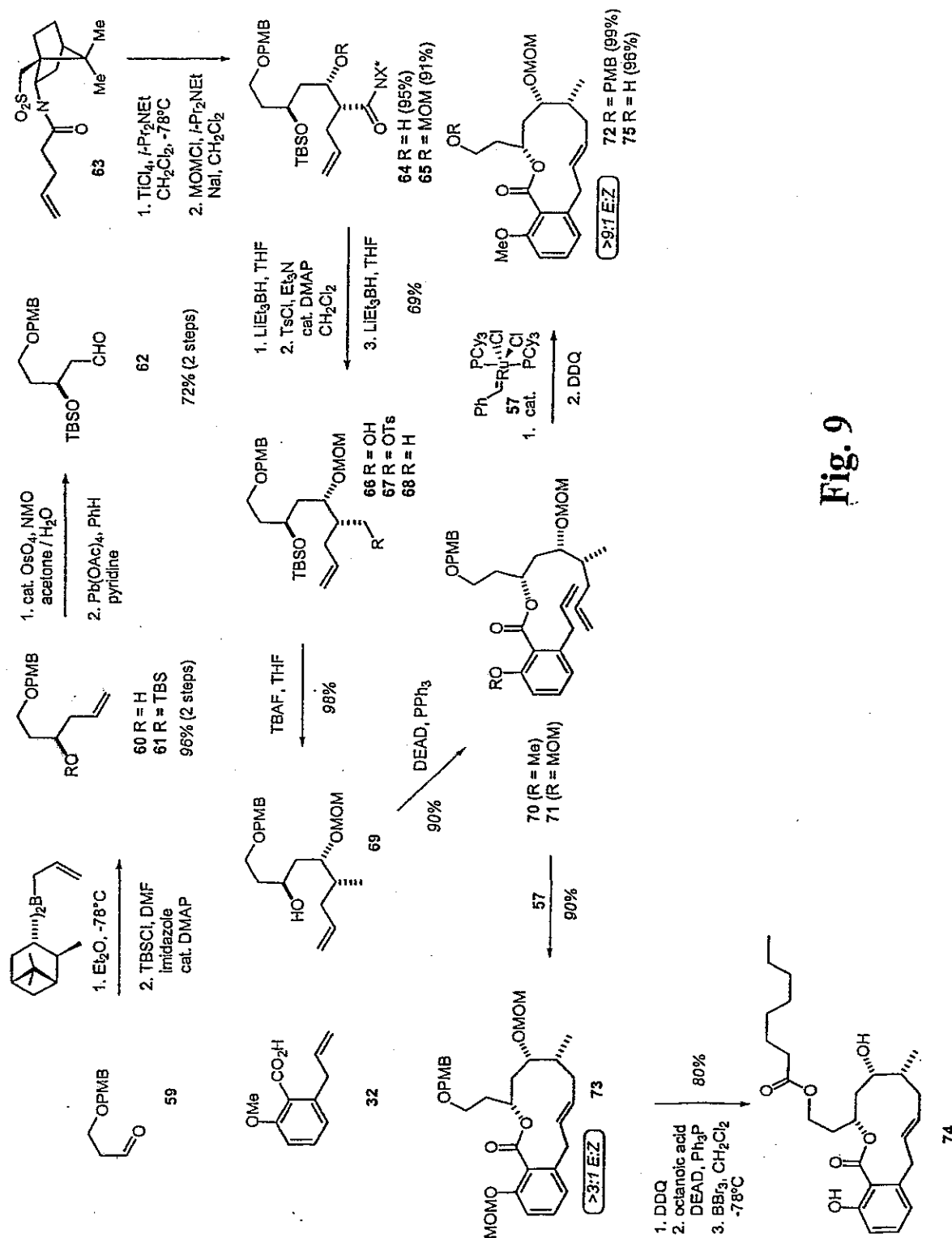


Fig. 9

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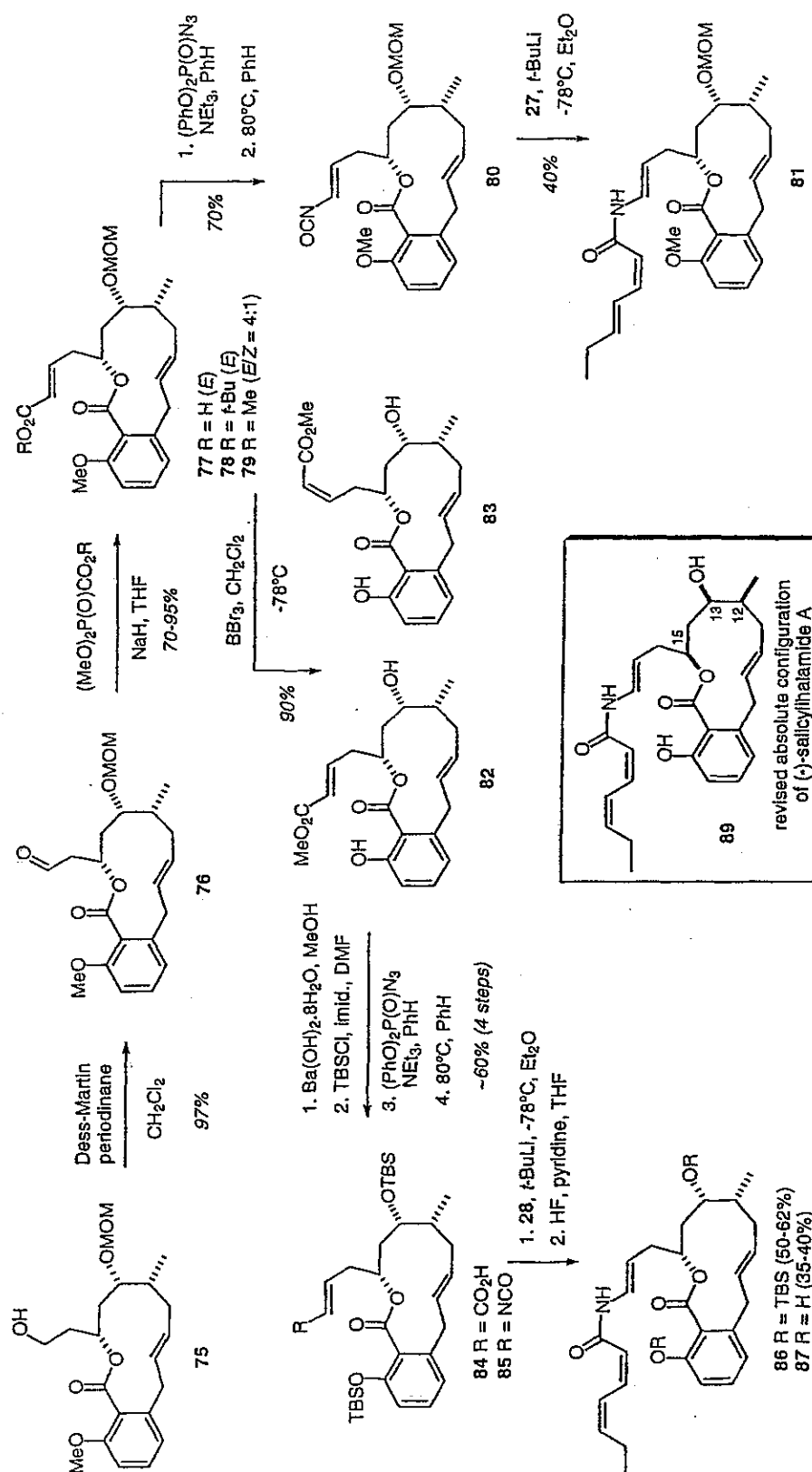


Fig. 10

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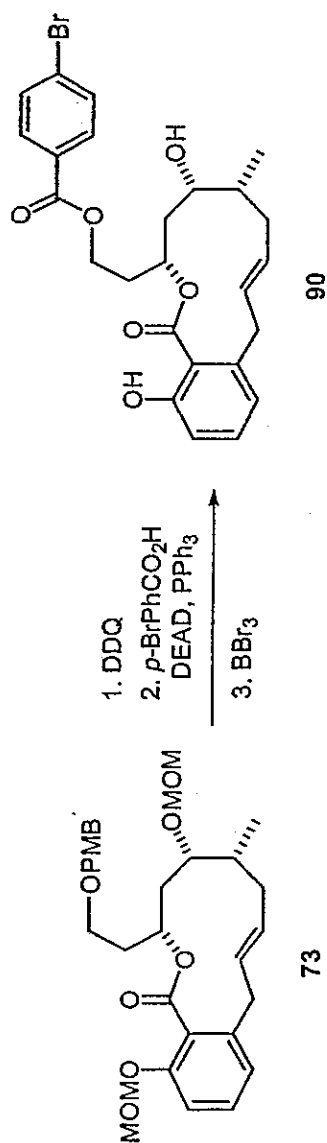


Fig. 11(a)

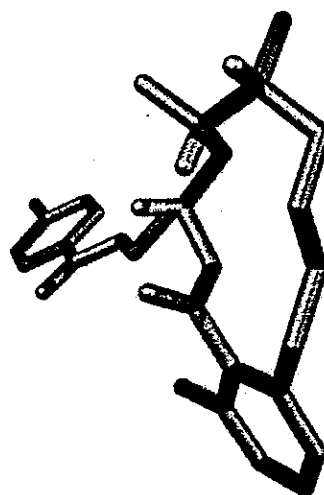


Fig. 11(b)

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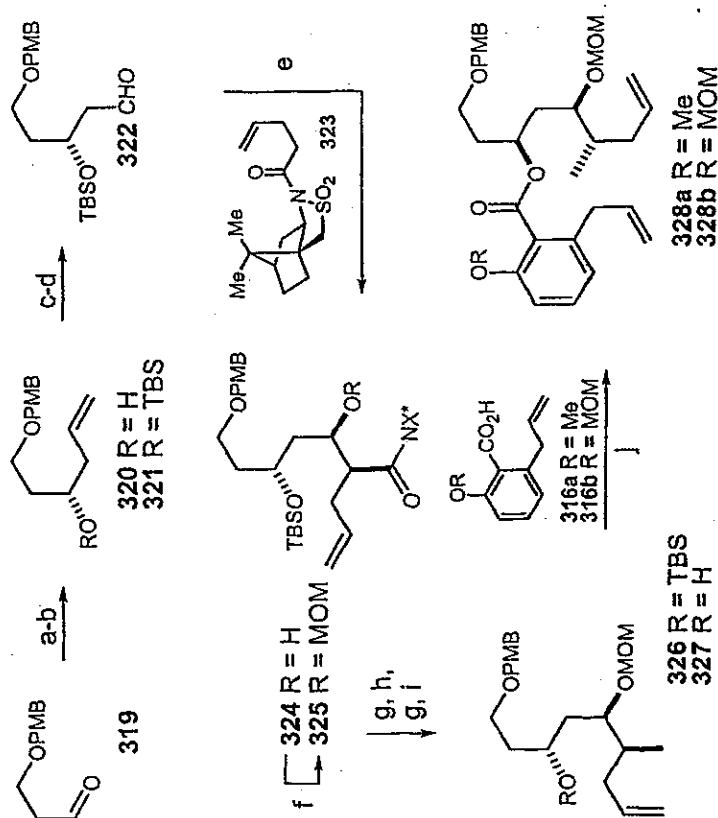


Fig. 12

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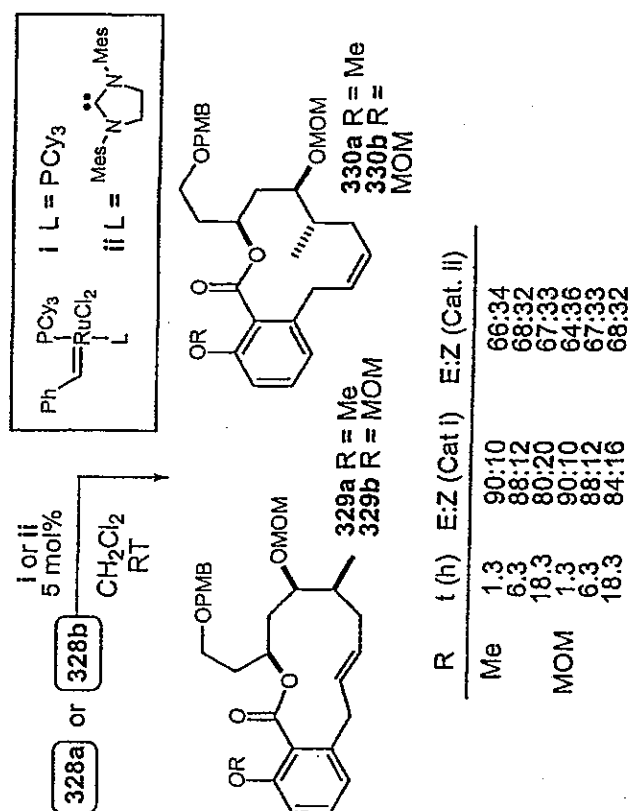


Fig. 13

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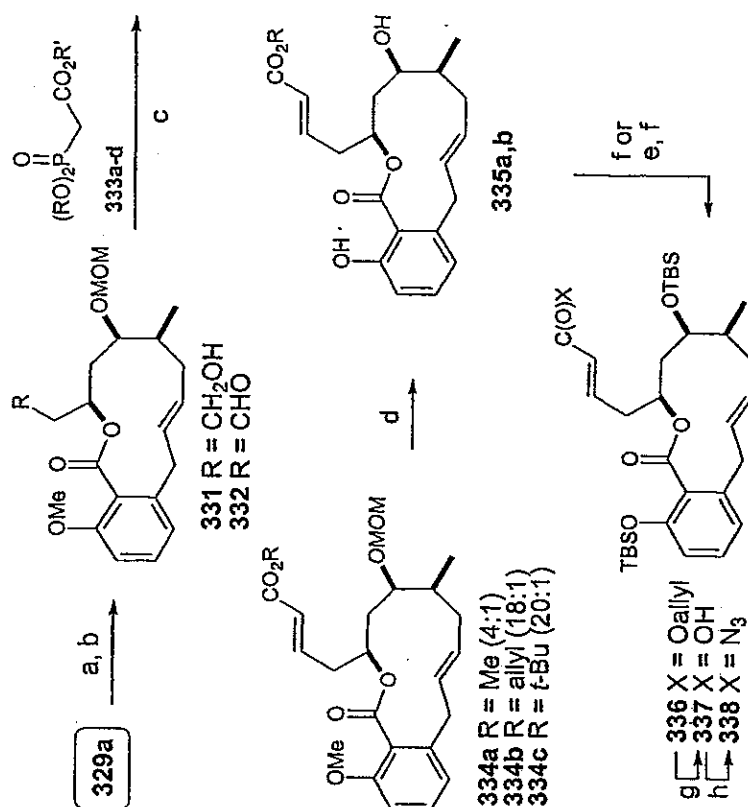


Fig. 14

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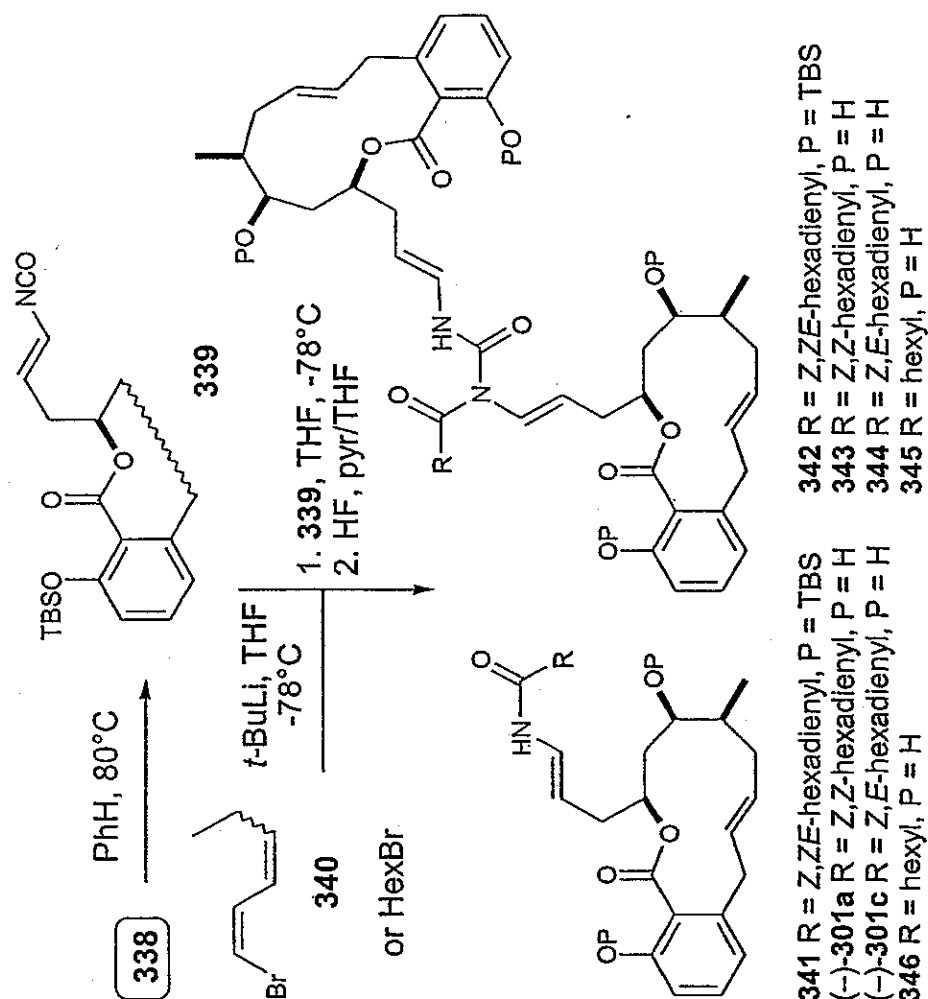


Fig. 15

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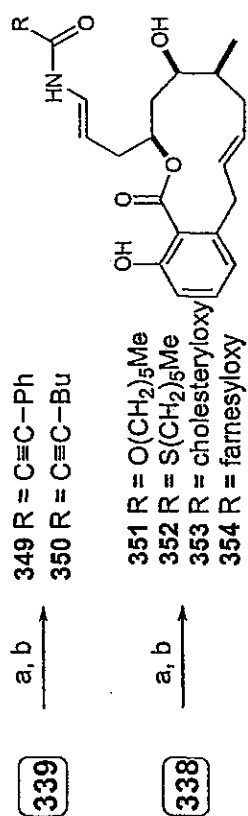
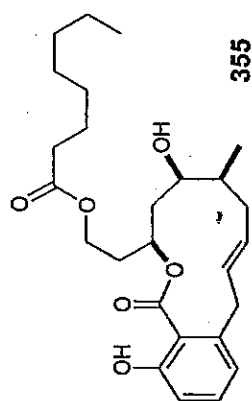


Fig. 16

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1. DDQ
2. PPh₃, DEAD
p-BrPhCO₂H
3. BBr₃

329a,b

Fig. 17

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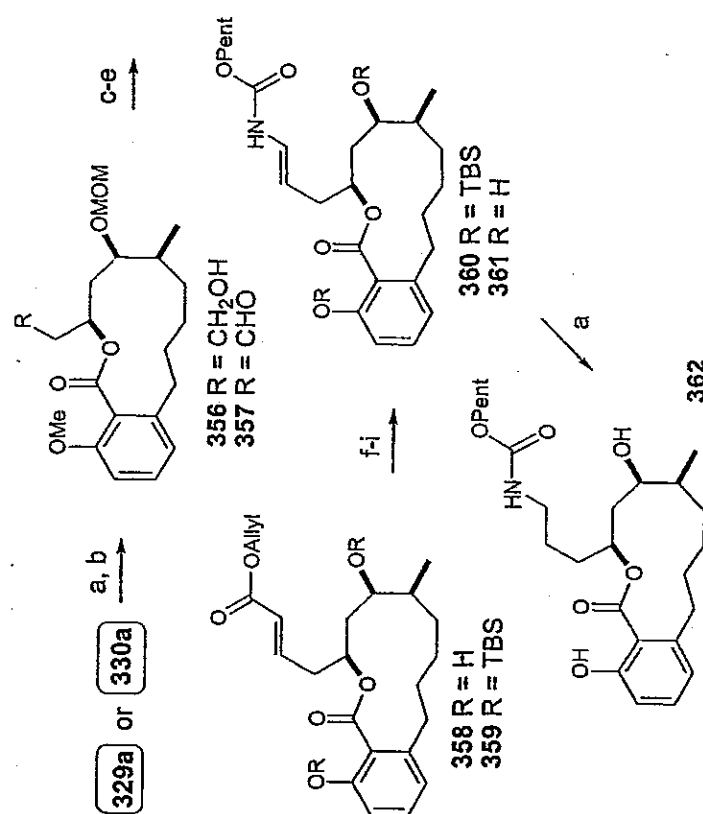


Fig. 18

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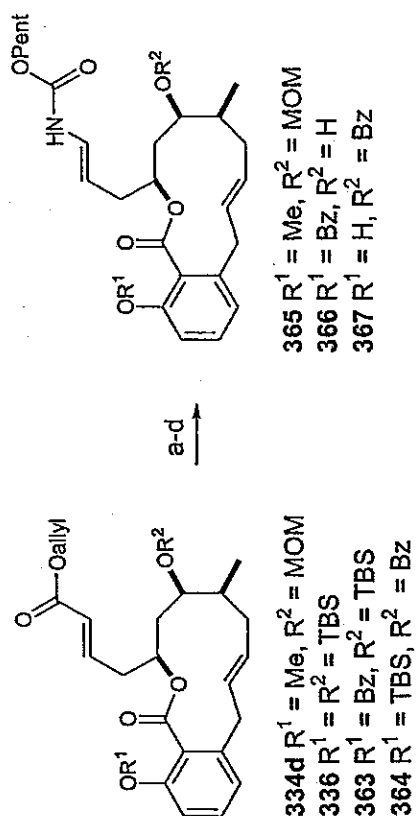


Fig. 19

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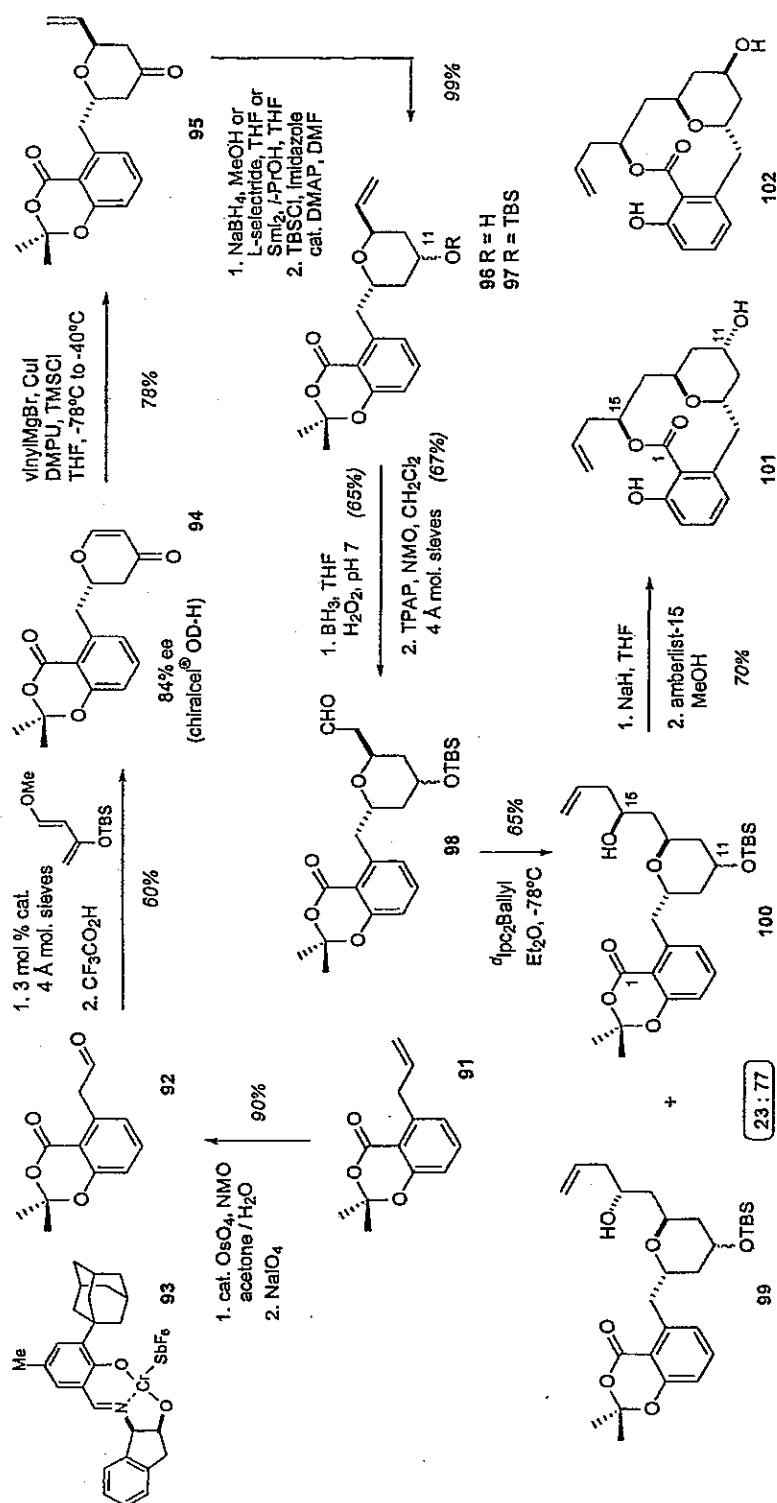


Fig. 20

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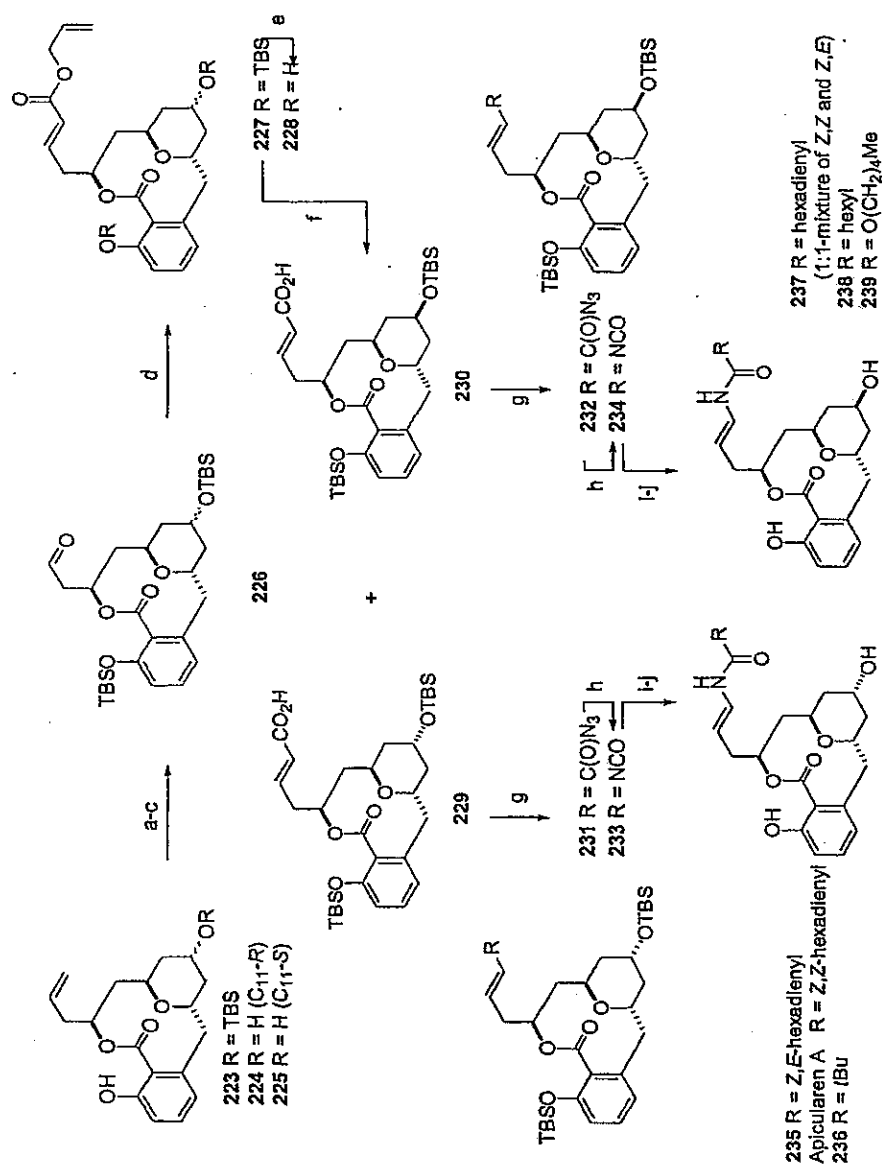


Fig. 21

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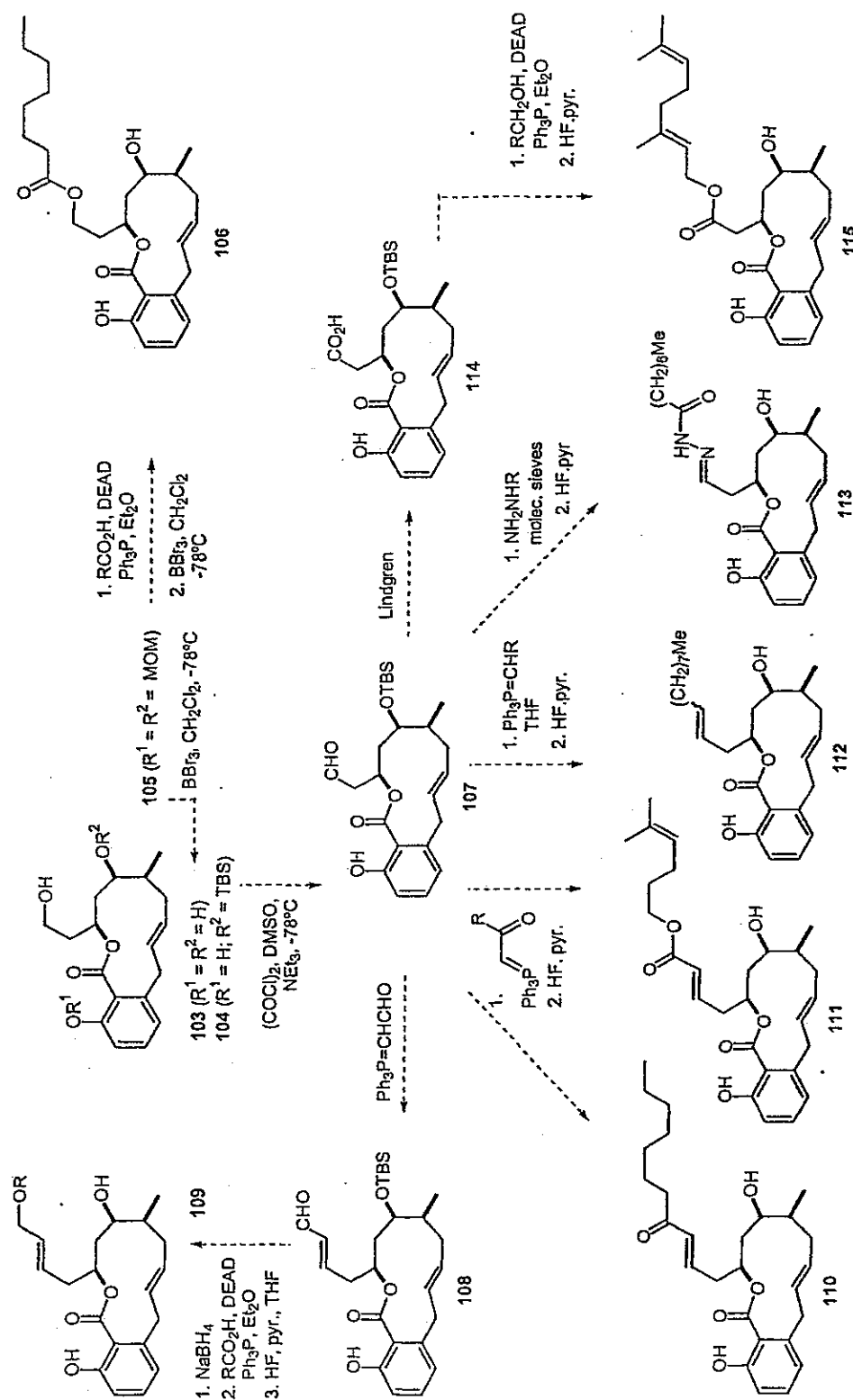


Fig. 22

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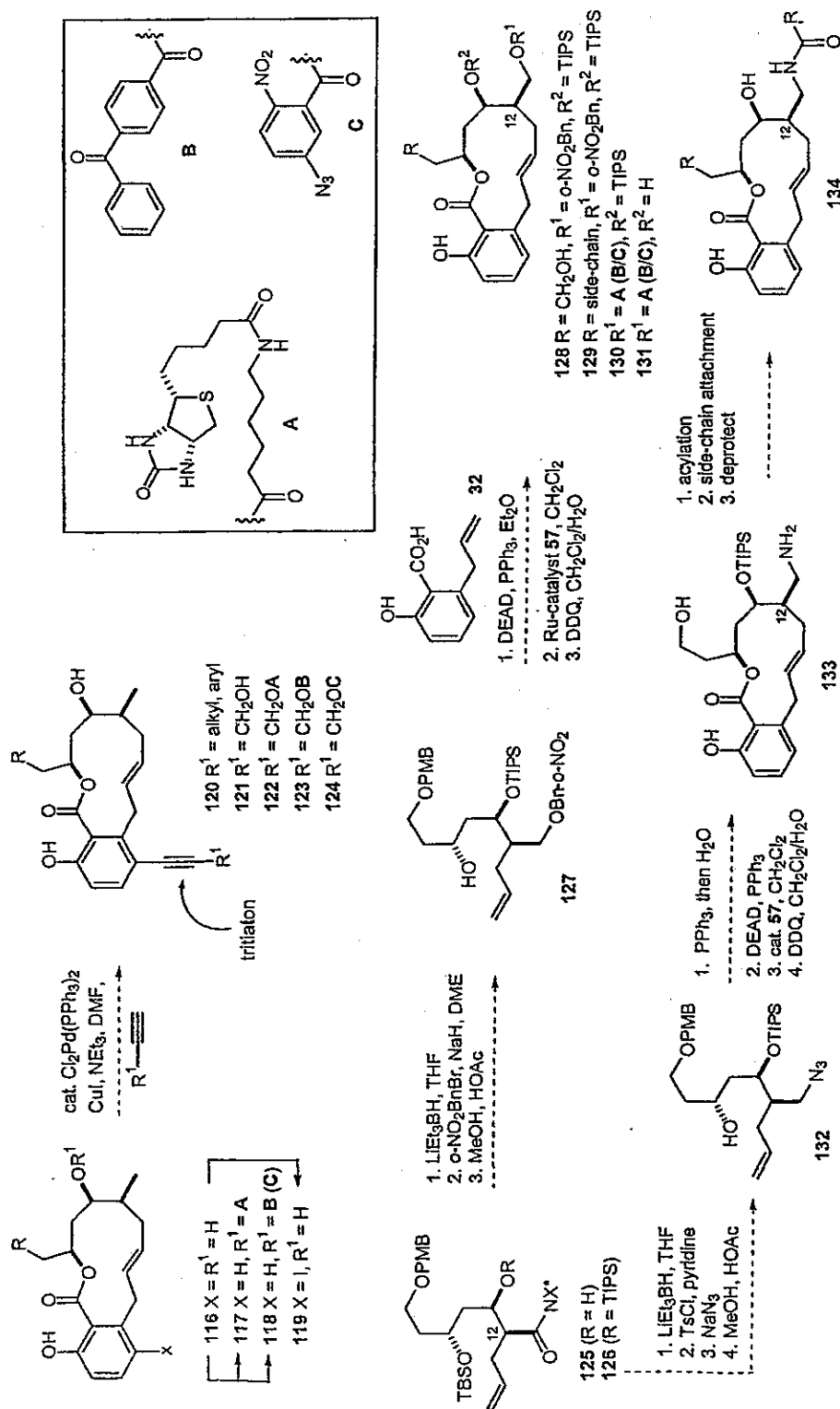


Fig. 23

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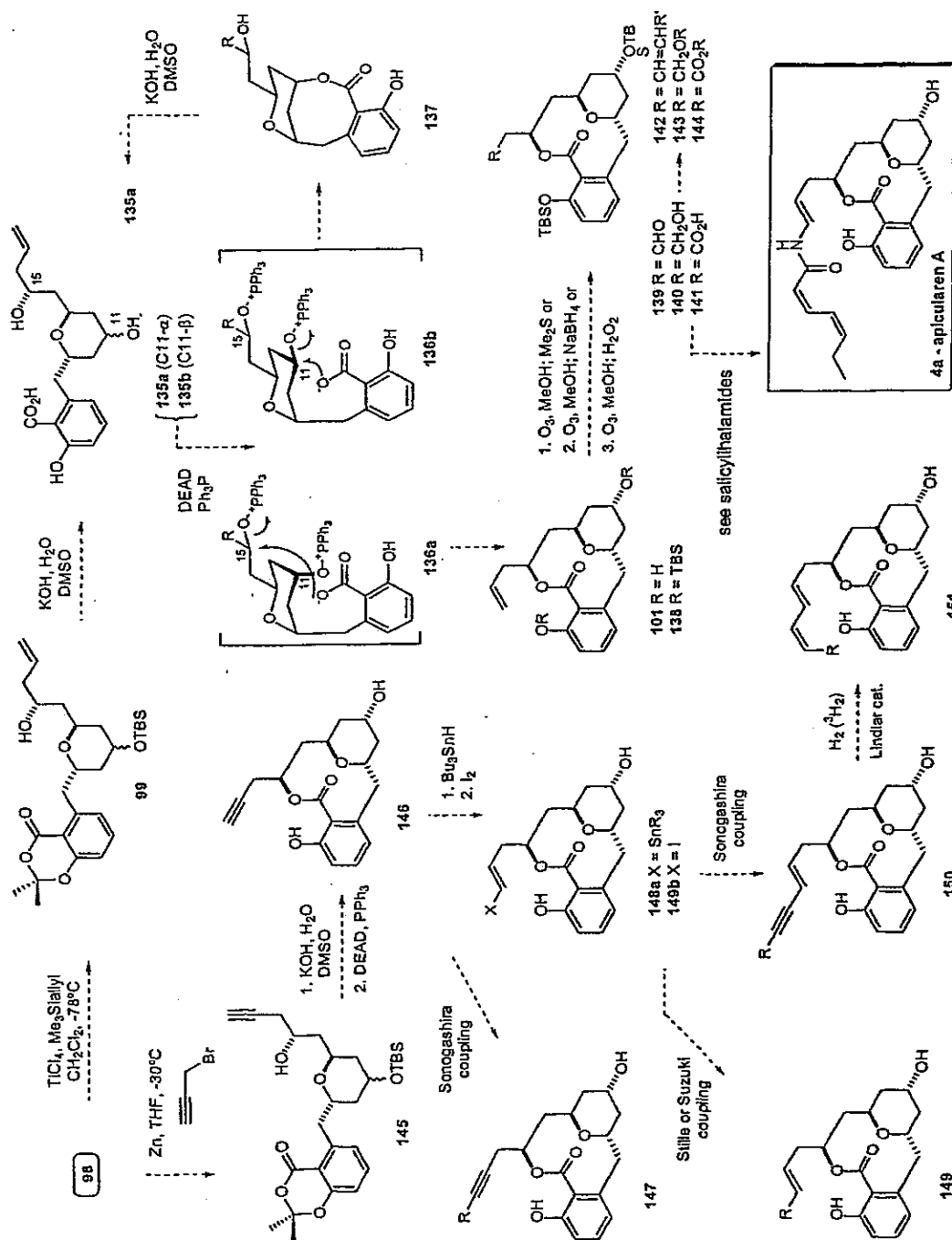


Fig. 24

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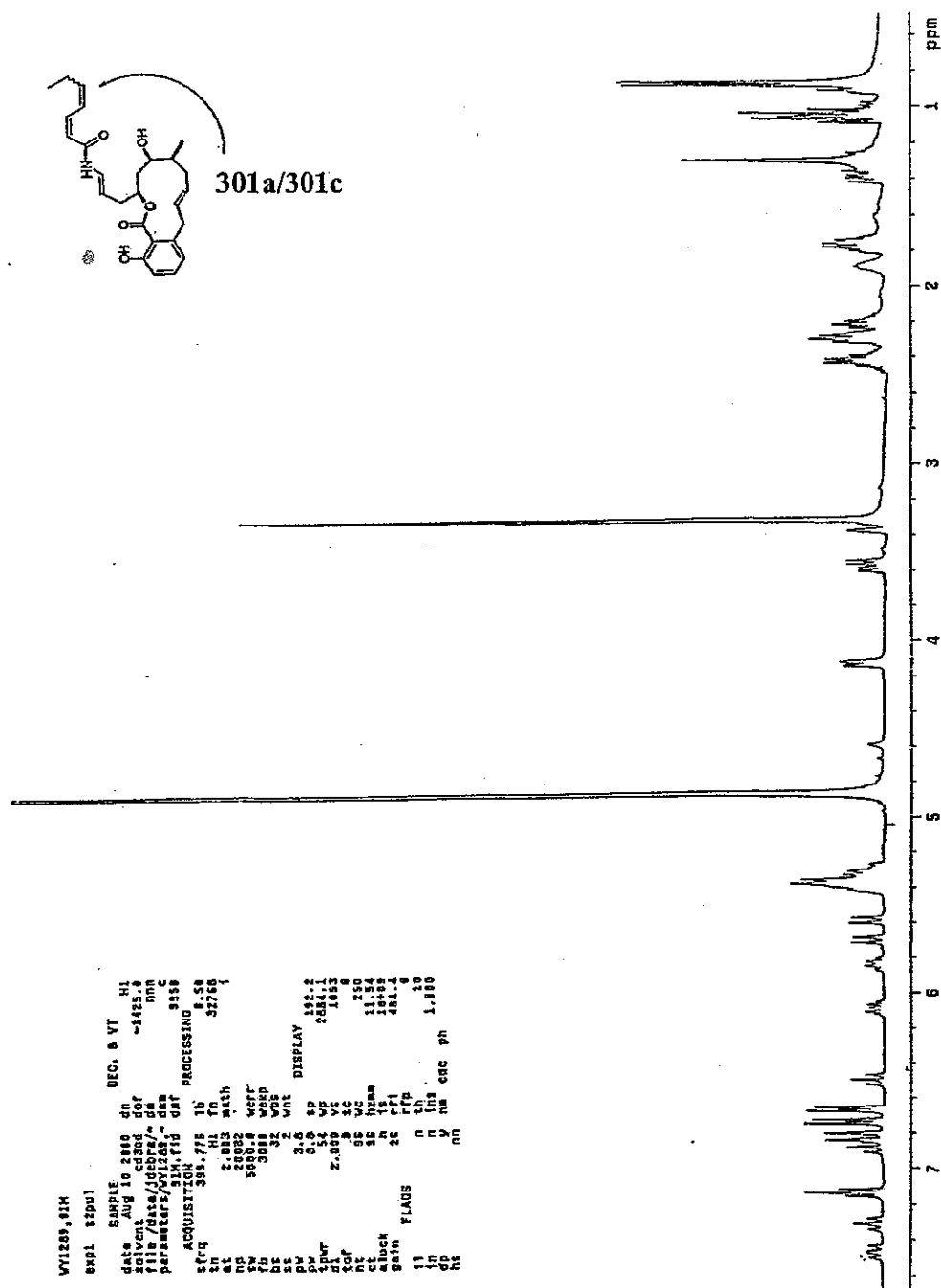


Fig. 25

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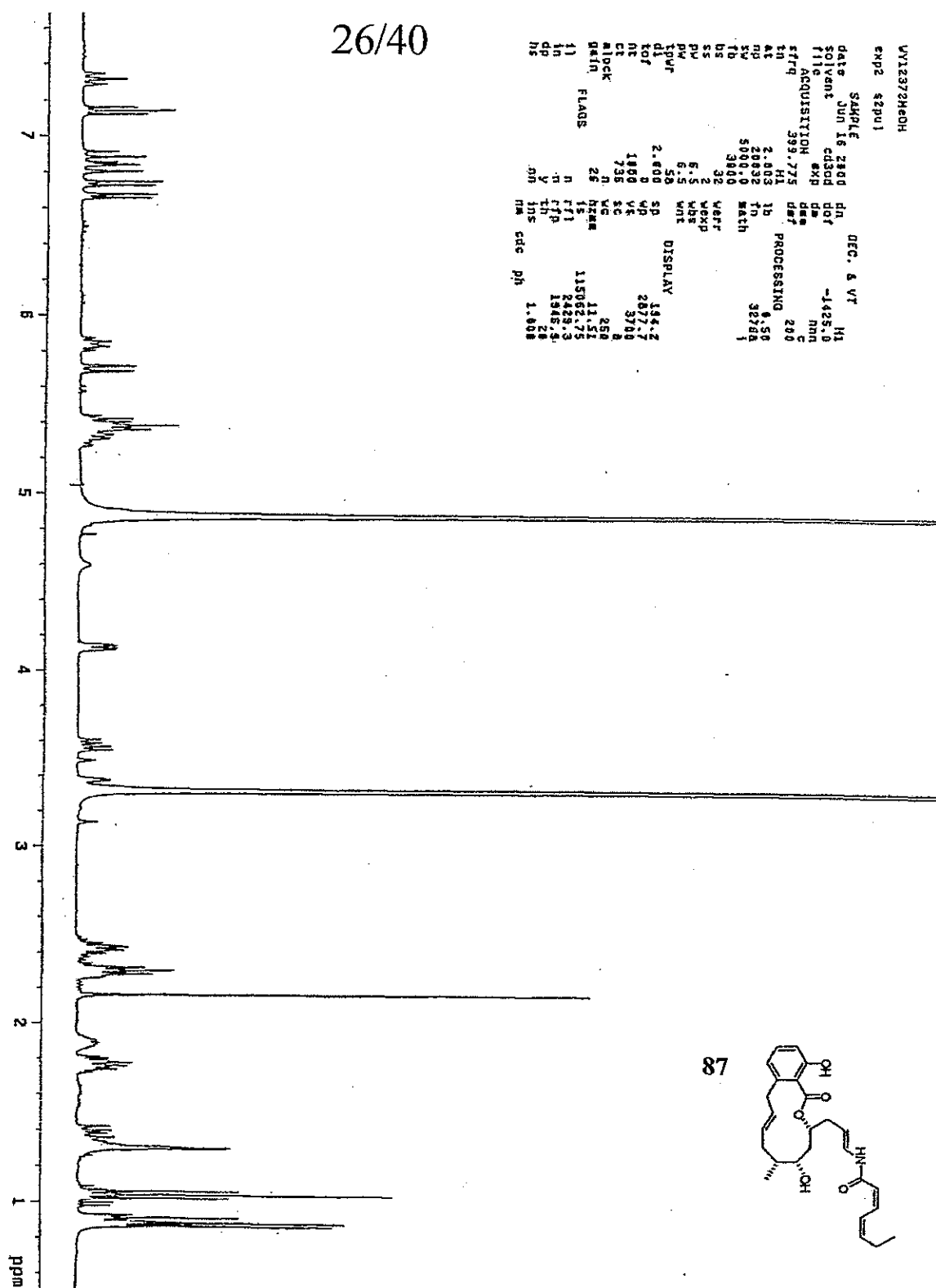


Fig. 26

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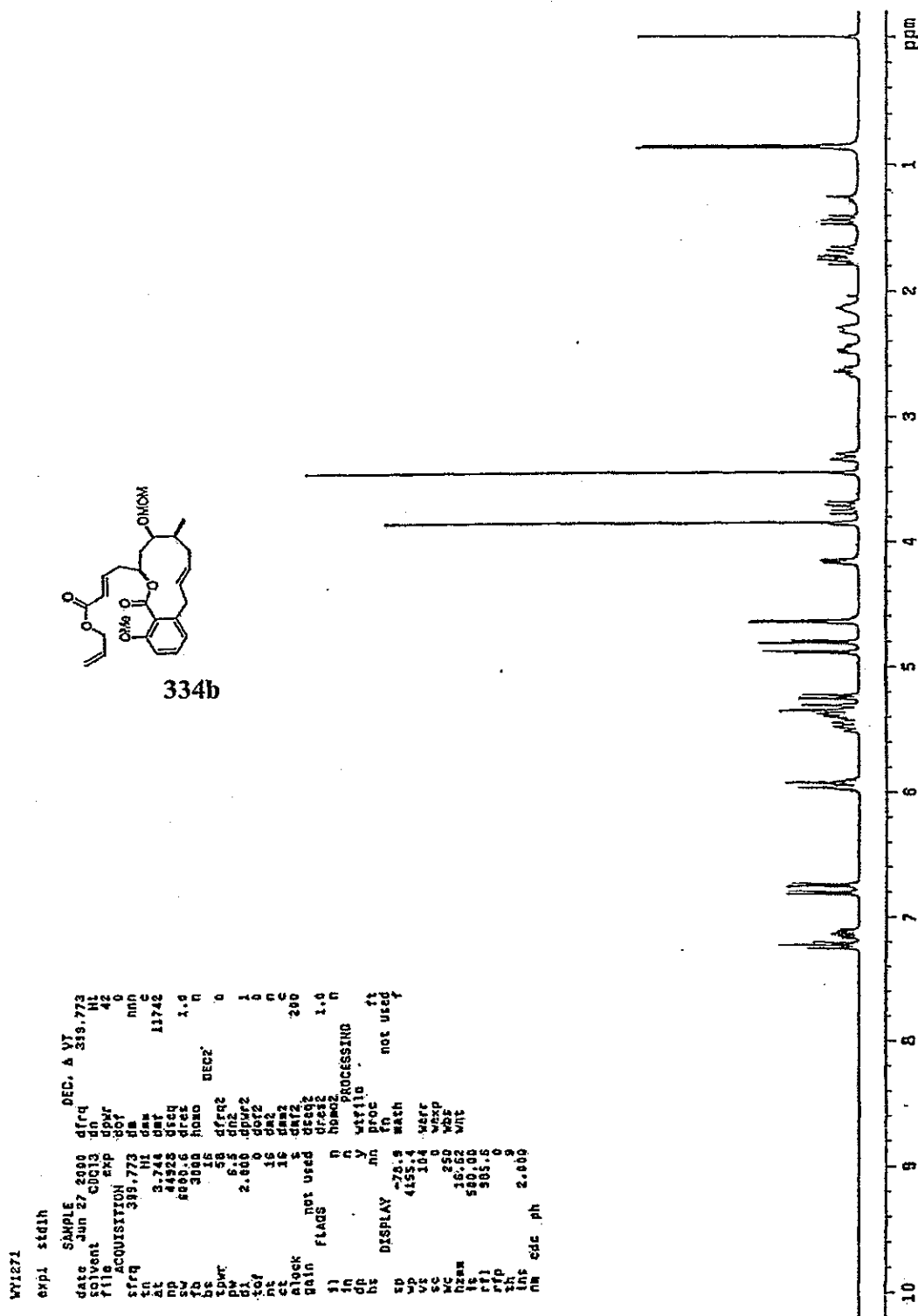


Fig. 28



335b

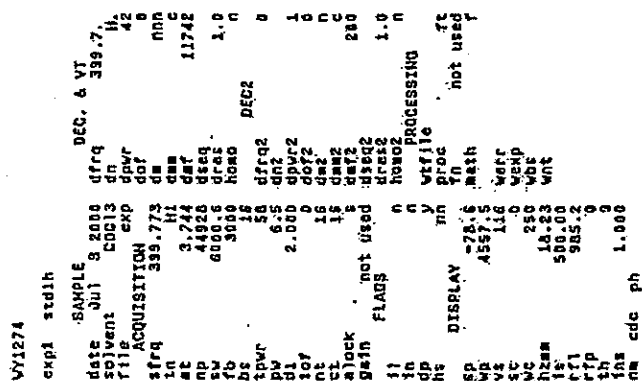


Fig. 29

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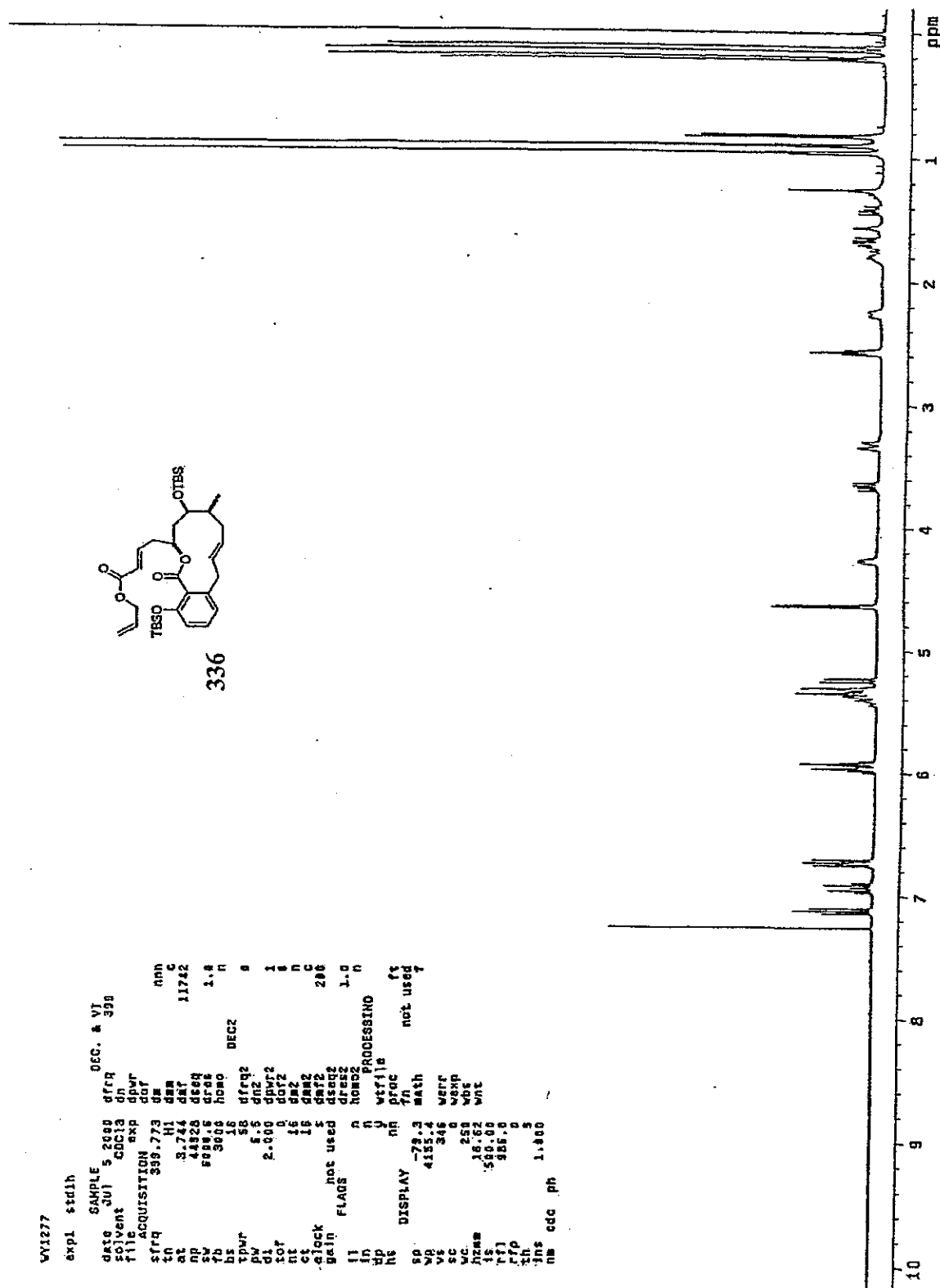


Fig. 30

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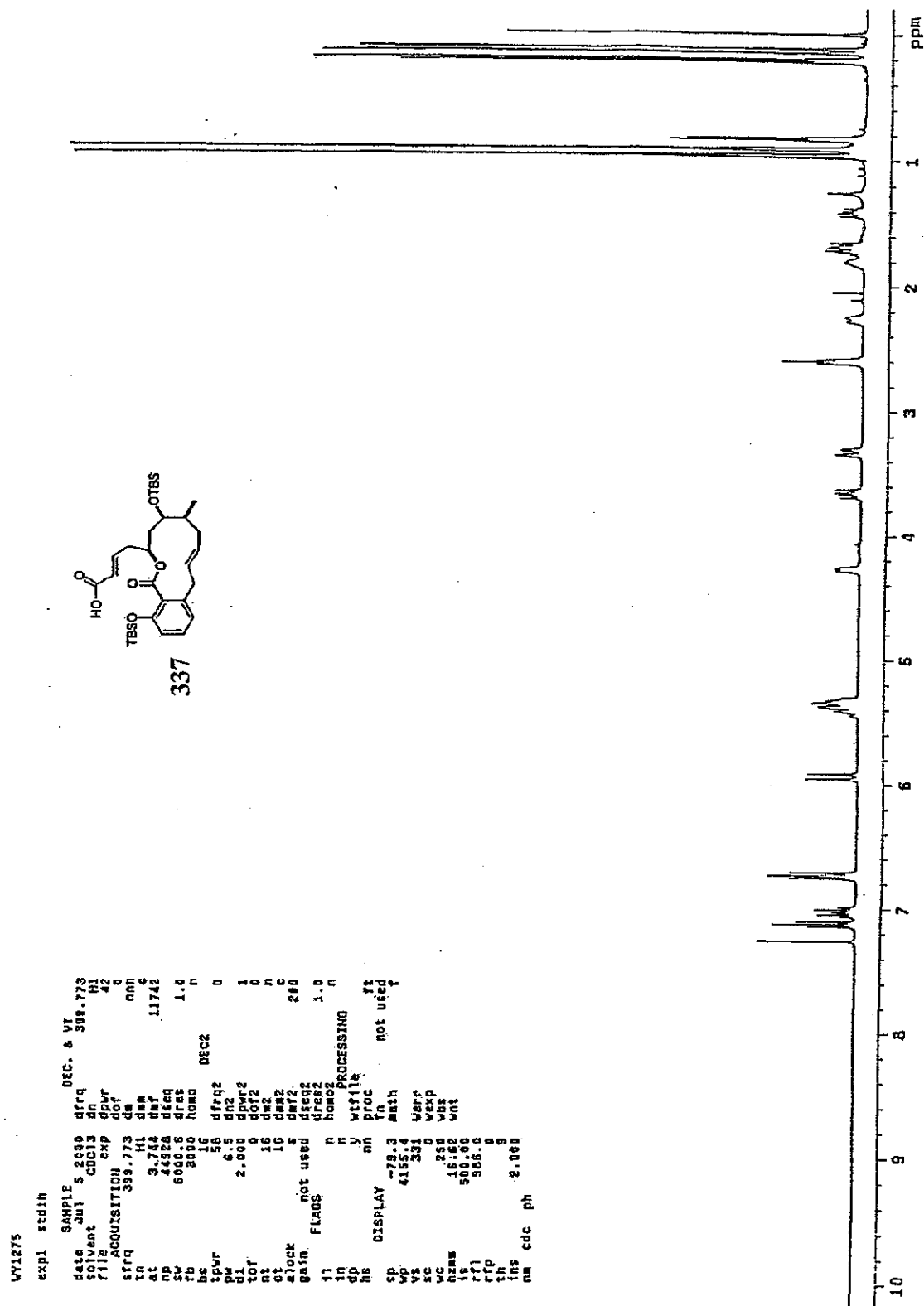


Fig. 31

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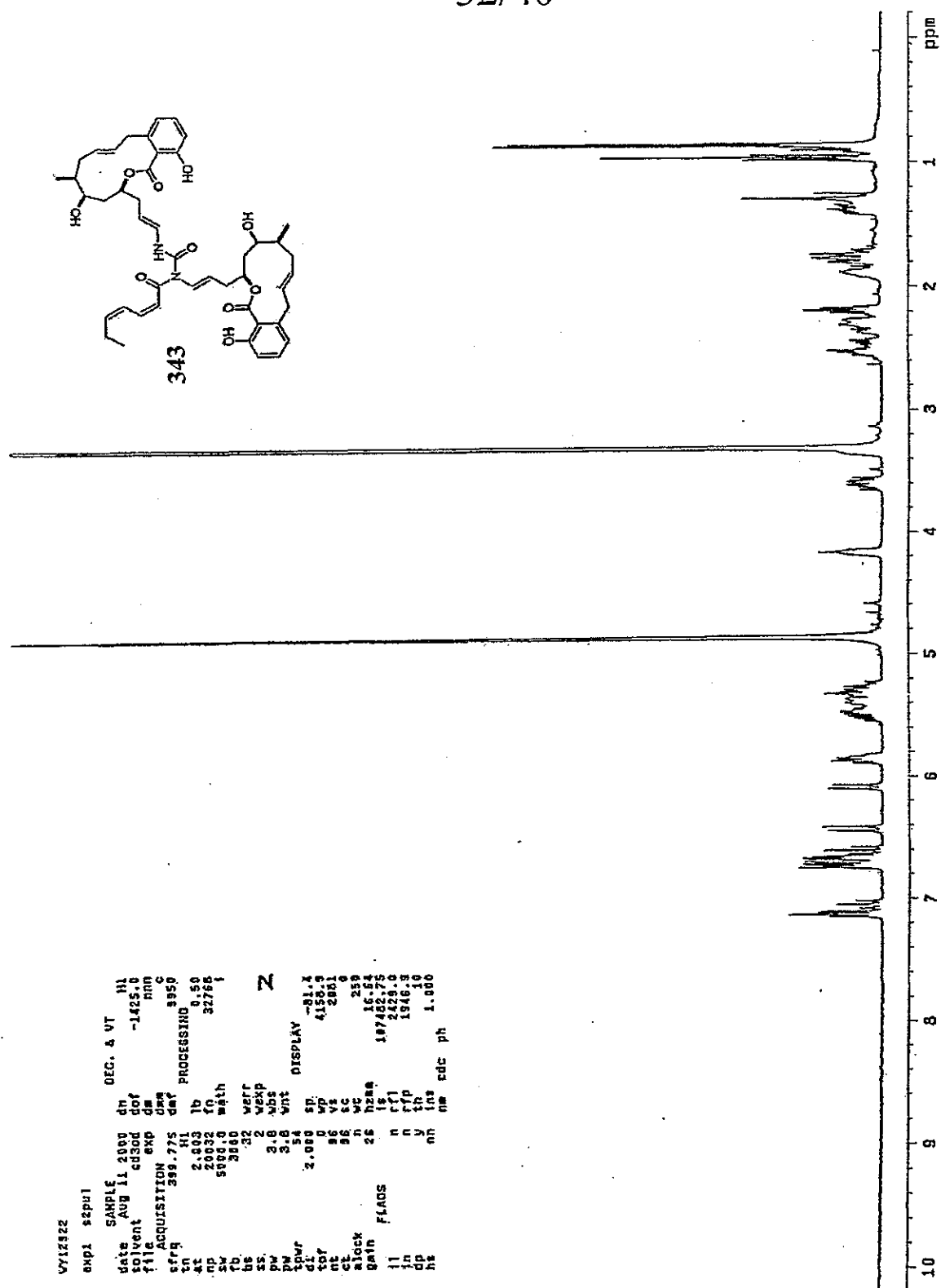


Fig. 32

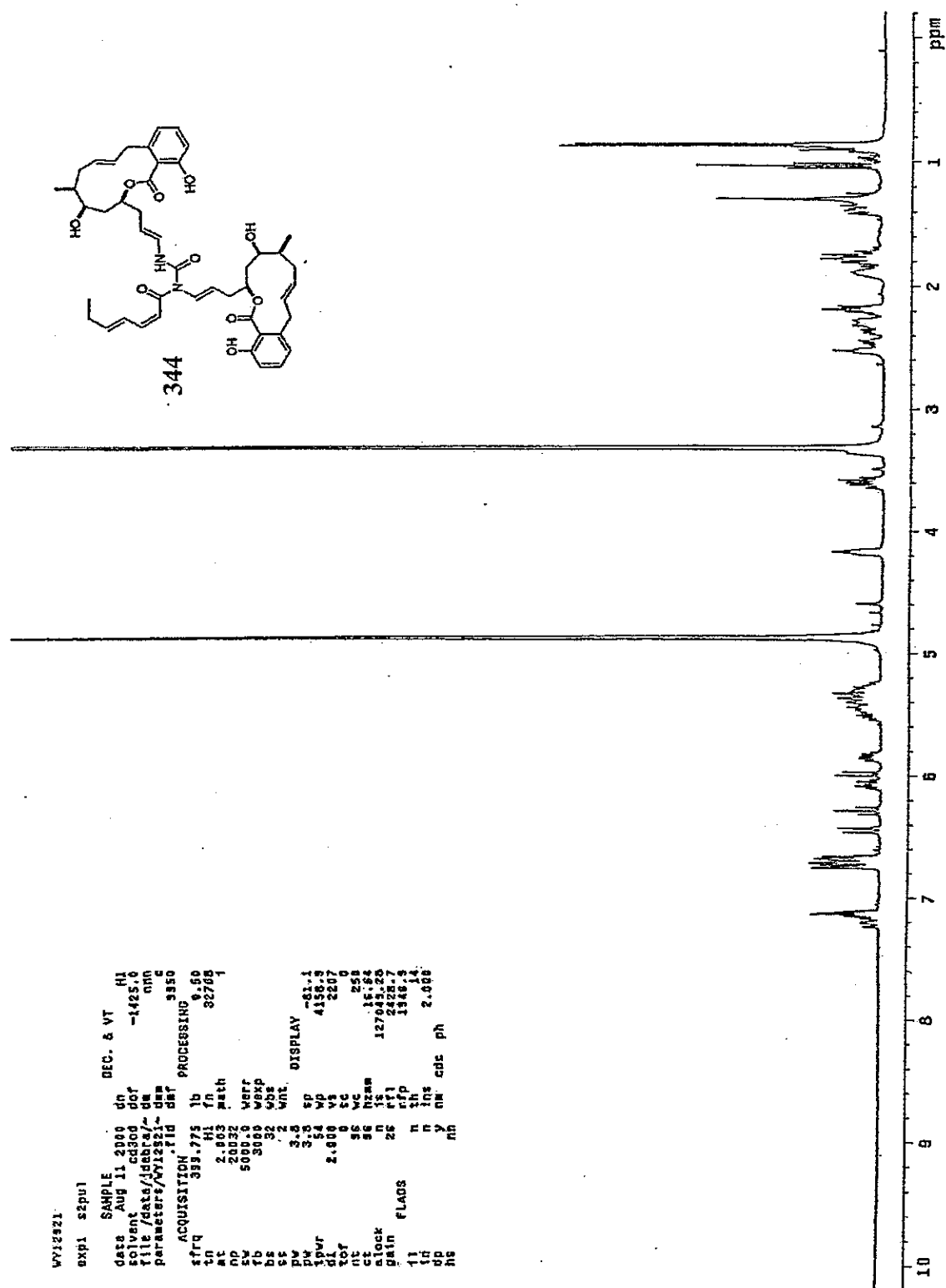


Fig. 33

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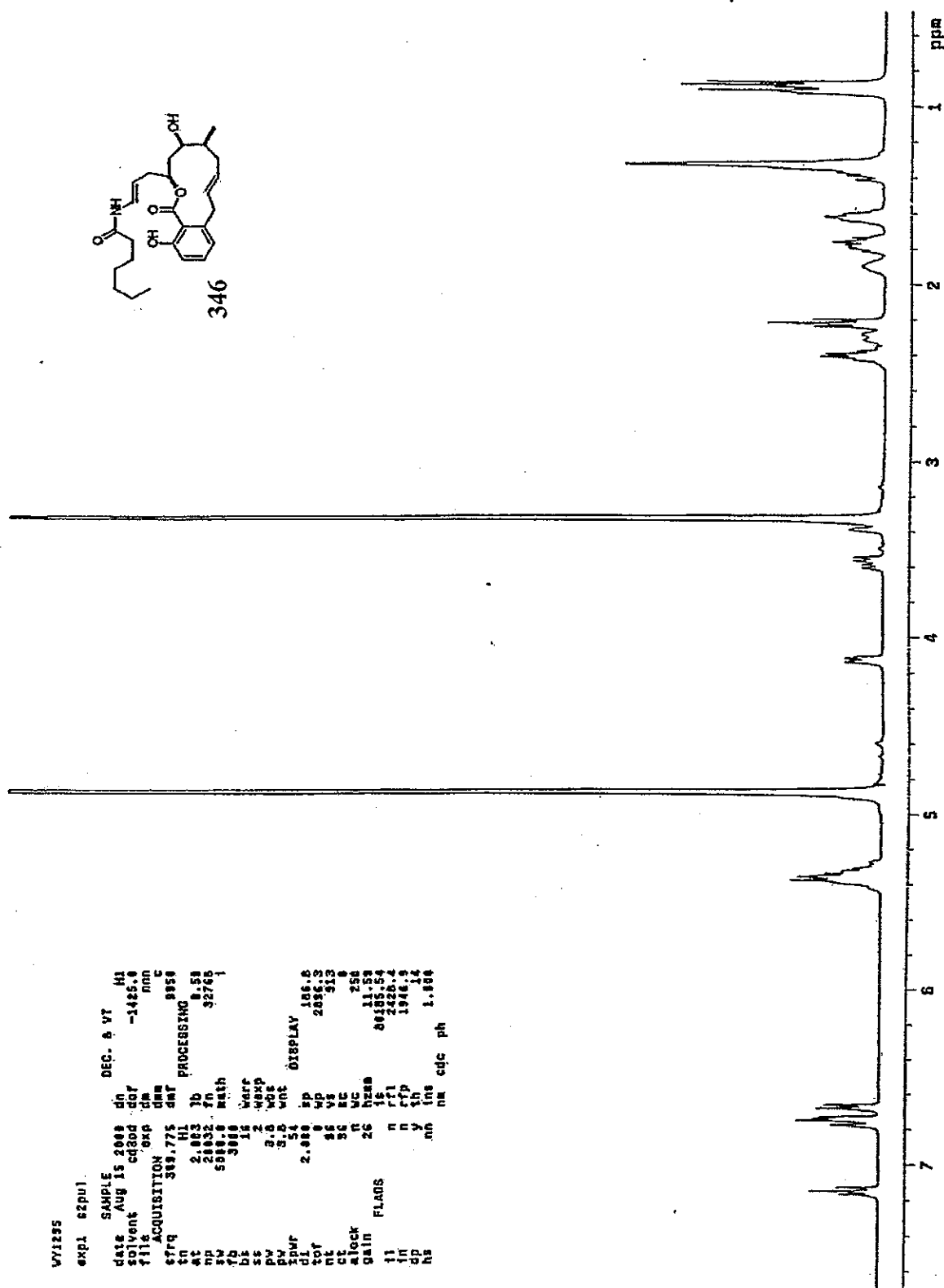


Fig. 34

345

Chemical structure of compound 345 is shown above the spectrum.

1H NMR spectrum (400 MHz, DMSO-d6) of compound 345. The x-axis represents chemical shift in ppm, ranging from 0 to 10. The spectrum shows several peaks: a broad peak around 10.5 ppm (OH), a multiplet between 7.5 and 8.5 ppm (aromatic protons), a sharp peak at 6.5 ppm (OH), a multiplet between 5.5 and 6.5 ppm (alkene protons), a sharp peak at 4.5 ppm (OH), a multiplet between 3.5 and 4.5 ppm (sugar protons), a sharp peak at 2.5 ppm (NH), and a multiplet between 1.5 and 2.5 ppm (alkyl protons).

Fig. 35

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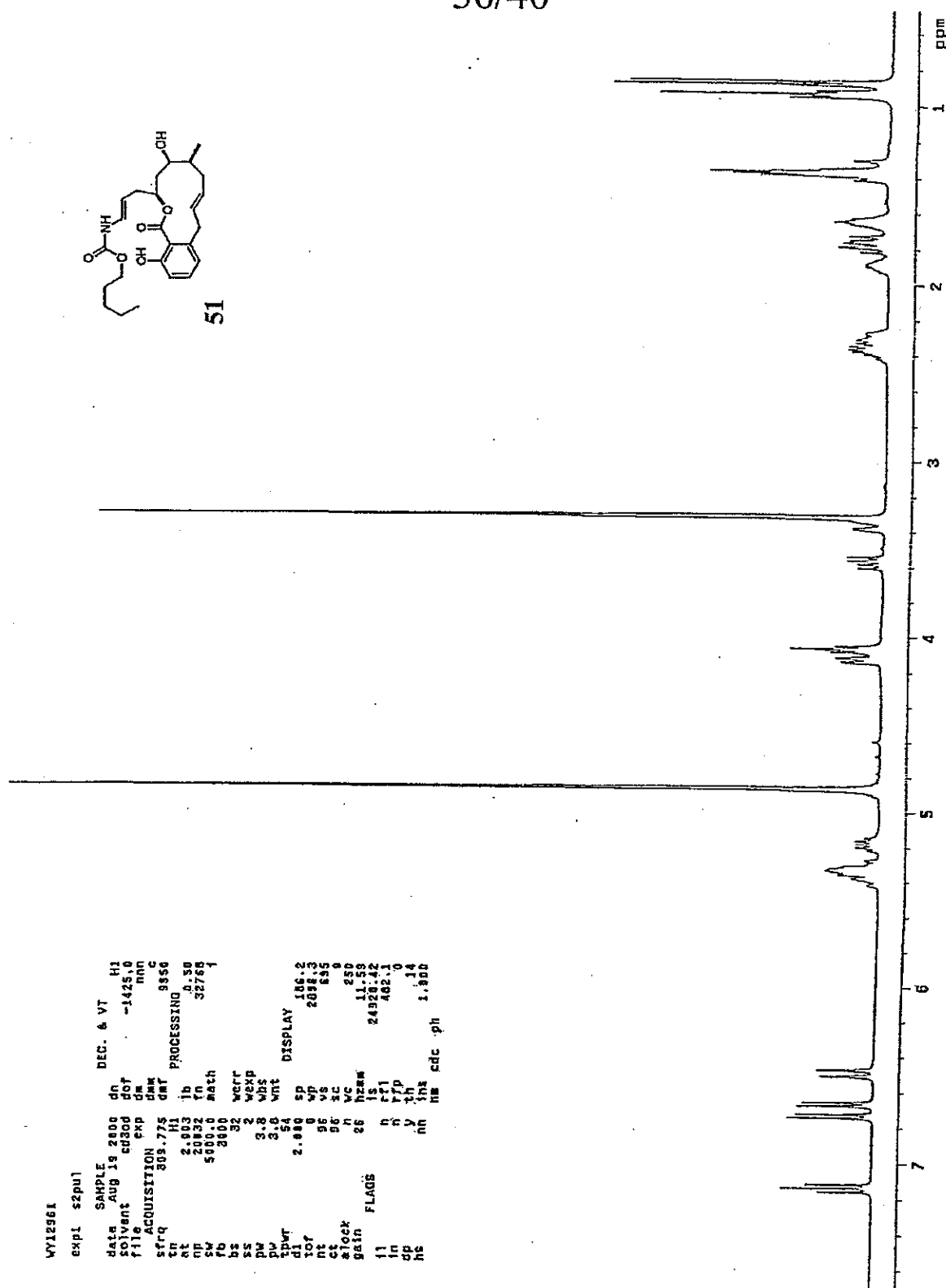


Fig. 36

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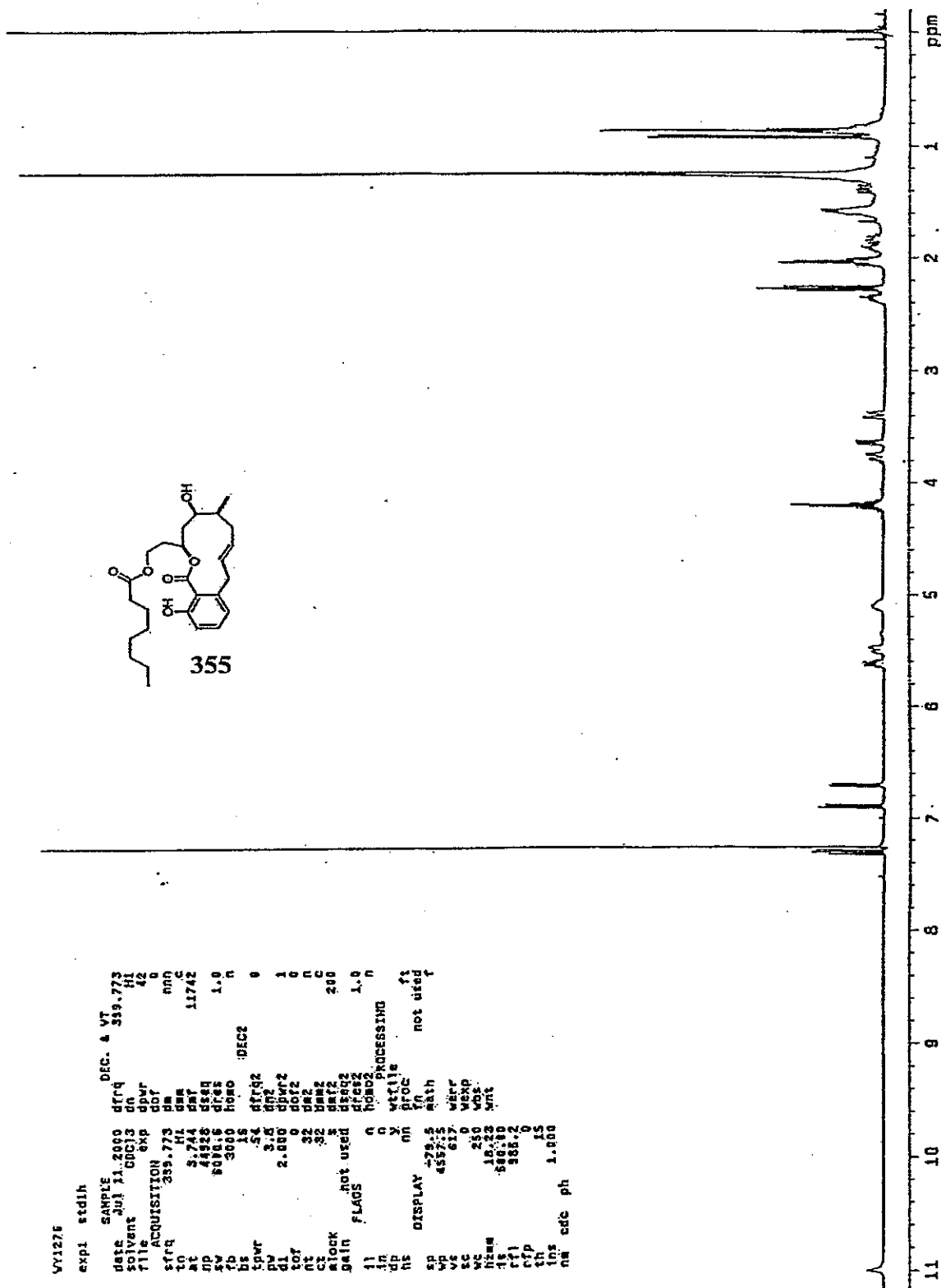


Fig. 37

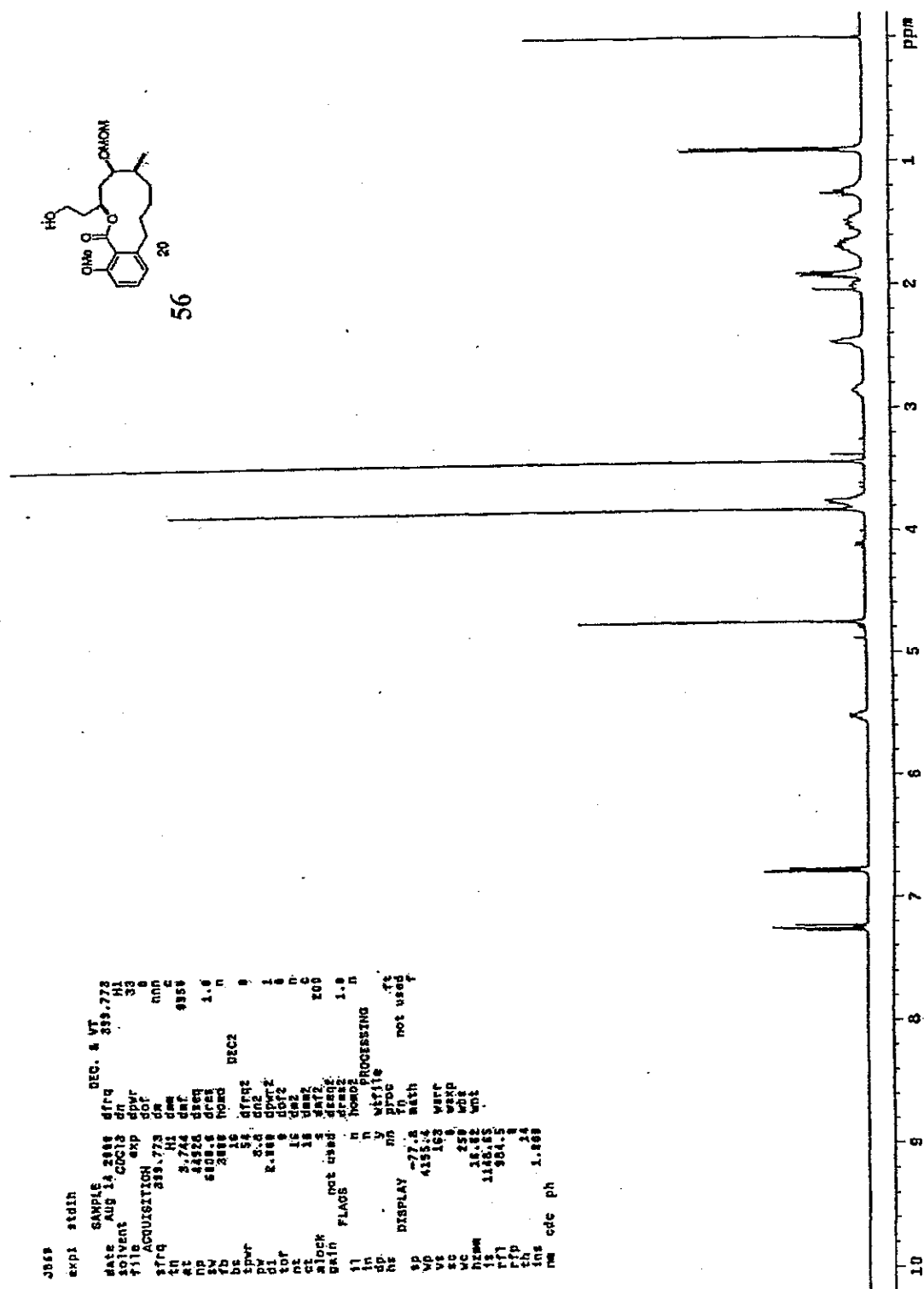


Fig. 38

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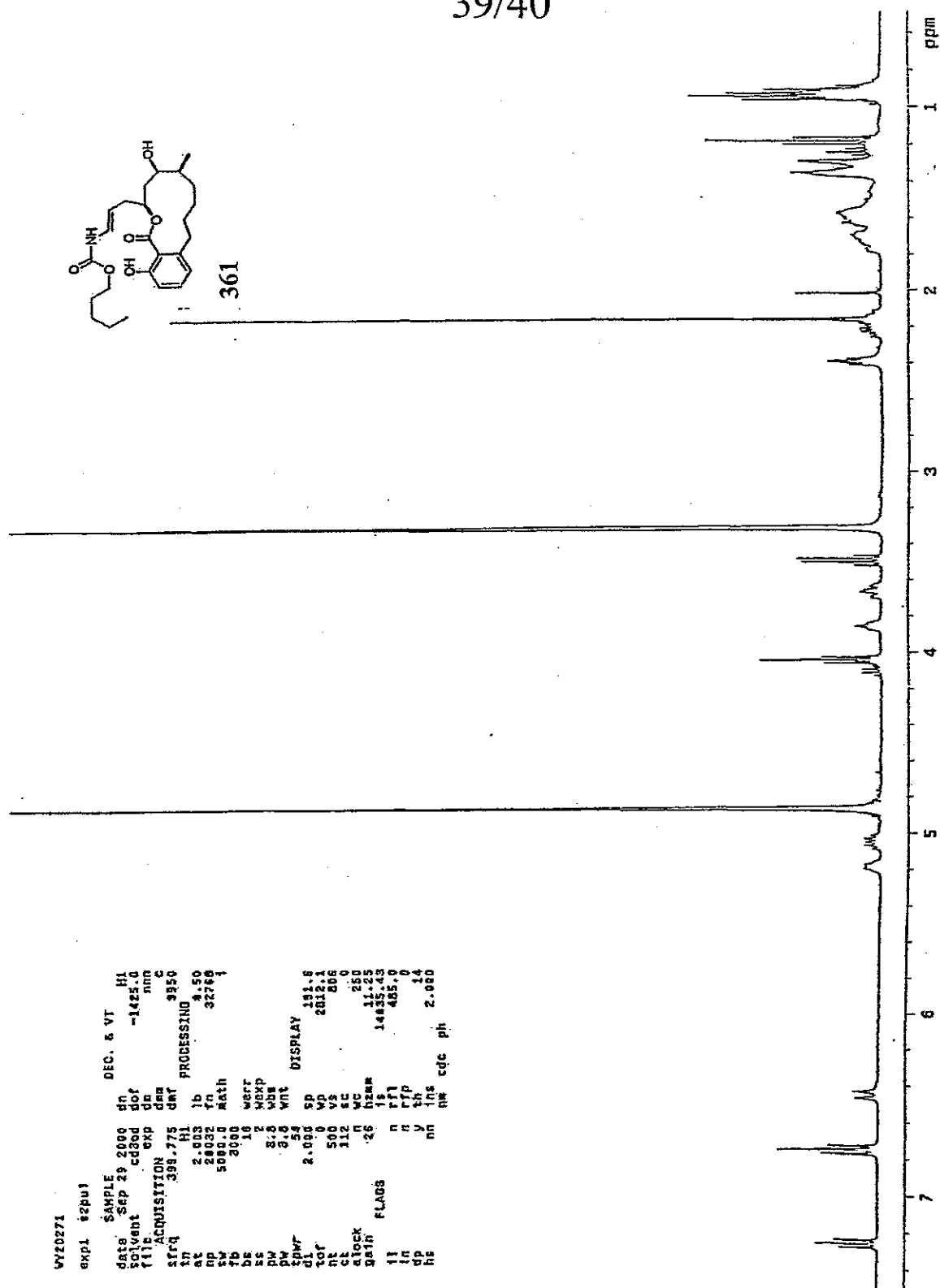


Fig. 39

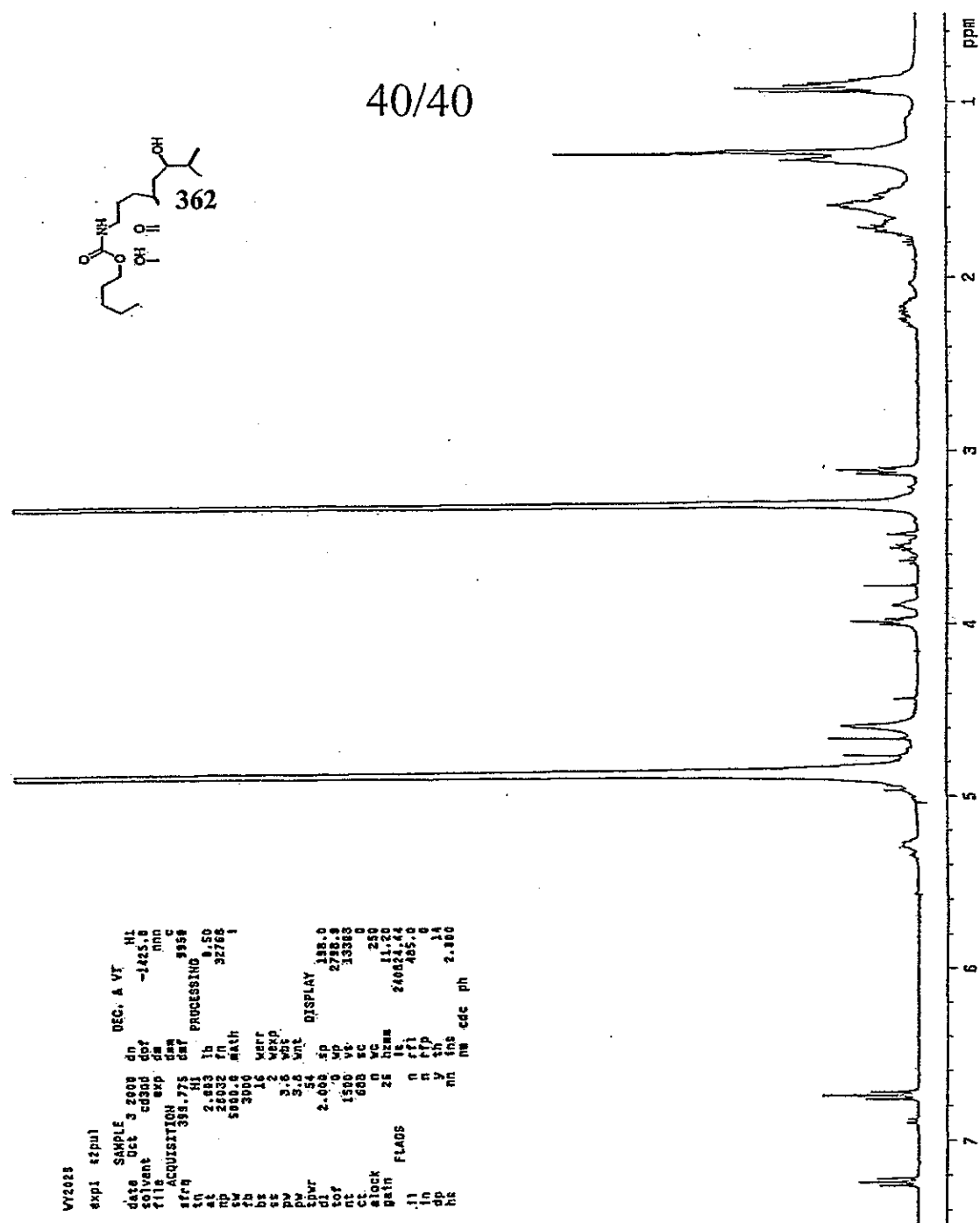


Fig. 40