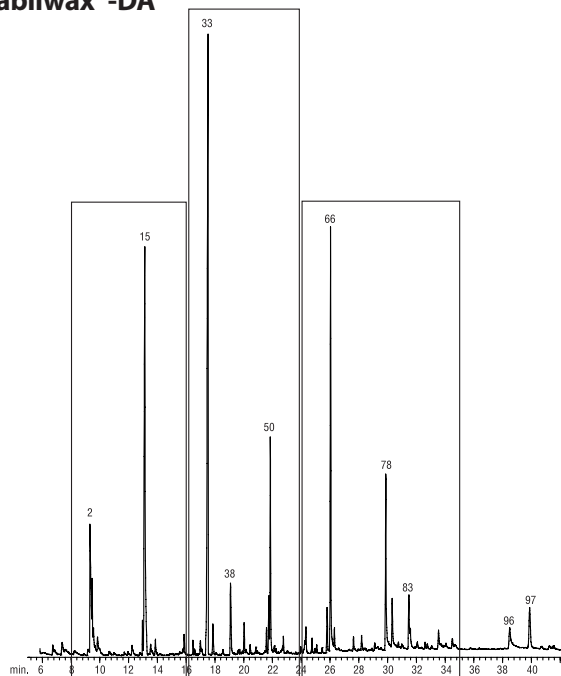
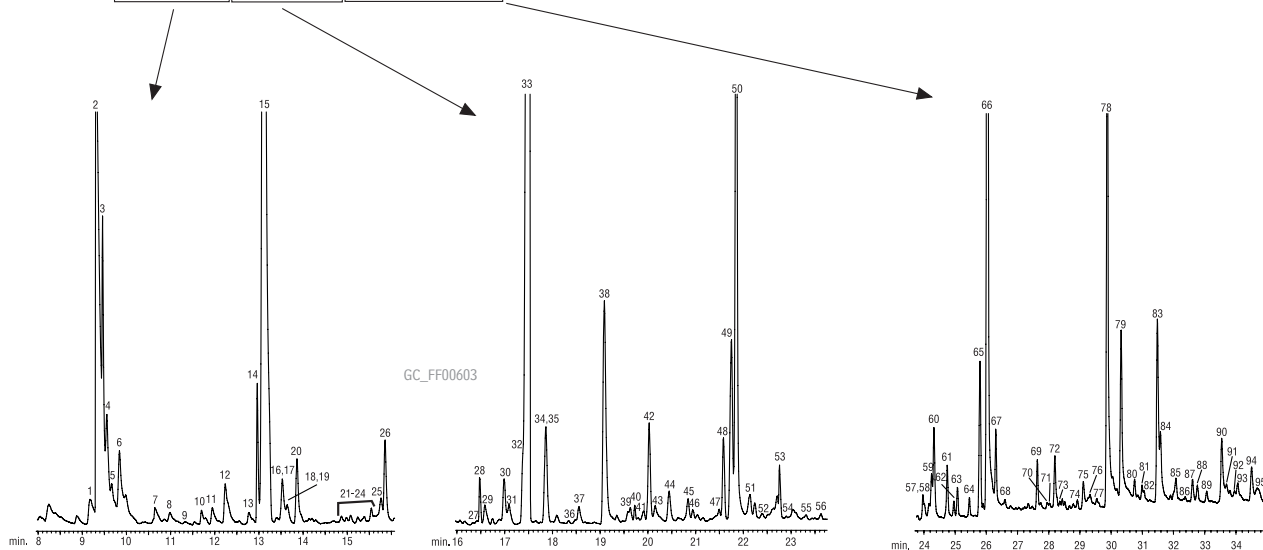


Malt Whiskey
Stabilwax®-DA

Column: Stabilwax®-DA, 30m, 0.18mm ID, 0.18 μ m (cat.# 550752)
 Inj.: 10 μ L large volume injection (splitless),
 at 10 μ L/min.
 Std. conc.: neat
 Gerstel CIS Injector: 35°C (hold 2 min.), to 300°C @
 10°C/sec. (hold 5 min.)
 Helium vent flow: 600mL/min. with 1.8 min. vent end time
 Carrier gas: helium
 Linear velocity: 45cm/sec.
 Oven temp.: 60°C (hold 2 min.) to 100°C @
 20°C/min., to 240°C @ 5°C/min.
 (hold 10 min.)
 Det.: MSD
 Transfer line temp.: 240°C
 Quadrupole temp.: 150°C
 MS source temp.: 230°C
 Scan range: 30–400amu
 Ionization: 70eV
 Mode: EI

Chromatogram courtesy of Kevin MacNamara, Ph.D., Irish Distilleries, Ltd.



- | | | | | |
|--|------------------------------------|--|--------------------------------------|------------------------------|
| 1. ethyl octanoate | 23. ethyl undecanoate | 44. unknown | 66. decanoic acid | 87. ethyl vanillate |
| 2. acetic acid | 24. isobutyl decanoate | 45. phenol | 67. ethyl 9-hexadecanoate | 88. acetovanillone |
| 3. siloxane | 25. 2(5H)-furanone | 46. methyl tetradecanoate | 68. triacosan | 89. vanillin methyl ketone |
| 4. 1-hydroxy-2,3-butadione | 26. unknown | 47. nerolidol | 69. unknown | 90. tetradecanoic acid |
| 5. 1-hydroxy-2-propanone acetate | 27. di(ethyleneglycol) butyl ether | 48. diethyl malate | 70. phthalide | 91. ethyl homovanillate |
| 6. furfural | 28. siloxane | 49. ethyl tetradecanoate | 71. diethyl phthalate | 92. propiovanillone |
| 7. formic acid | 29. methyl dodecanoate | 50. octanoic acid | 72. hexadecanol | 93. fatty acid ester |
| 8. propionic acid | 30. 2-phenylethyl acetate | 51. unknown | 73. 4-hydroxycinnamic acid (decomp.) | 94. (similar to 4-allyl-2,6- |
| 9. isobutyric acid | 31. methylcyclopentenolone | 52. <i>p</i> -cresol | 74. methyl stearate | dimethoxyphenol) |
| 10. dimethyl sulfoxide | 32. hexanoic acid | 53. siloxane | 75. benzoic acid | 95. unknown |
| 11. 5-methyl furfural | 33. ethyl dodecanoate | 54. diethyl octanedioate | 76. methyl 8-octadecenoate | 96. hexadecanoic acid |
| 12. methyl decanoate + unknown | 34. isoamyl decanoate | 55. monomethyl succinate (possible) | 77. ethyl stearate | 97. syringaldehyde |
| 13. butyric acid | 35. guaiacol | 56. 3,5-dimethyl-2,4(5H)furanidione | 78. dodecanoic acid | |
| 14. siloxane | 36. dodecyl acetate (possible) | 57. nonanoic acid | 79. hydroxymethylfurfural | |
| 15. ethyl decanoate | 37. whiskey lactone (1) | 58. diethyl 2-hydroxyglutarate | 80. ethyl linoleate | |
| 16. furfuryl alcohol | 38. 2-phenylethanol | 59. unknown | 81. 4-allyl-2,6-dimethoxyphenol | |
| 17. isoamyl octanoate | 39. heptanoic acid | 60. tetradecanol | 82. diisobutyl phthalate | |
| 18. isovaleric acid | 40. siloxane | 61. 4-vinylguaiacol | 83. vanillin | |
| 19. 2-methylbutyric acid | 41. dimethoxybenzene or 4-methyl- | 62. diethyl nonanedioate | 84. sinapic acid (decomp.) | |
| 20. diethyl succinate | guaiacol | 63. methyl hexadecanoate | 85. 2-phenylethyl decanoate | |
| 21. 3-methyl-2(5H)-furanone (possible) | 42. whiskey lactone (2) | 64. ethyl γ -lactone 2-hydroxyglutarate | + 2 unknowns | |
| 22. valeric acid | 43. dodecanol | 65. ethyl hexadecanoate | 86. 4-propenyl-2,6-dimethoxyphenol | |