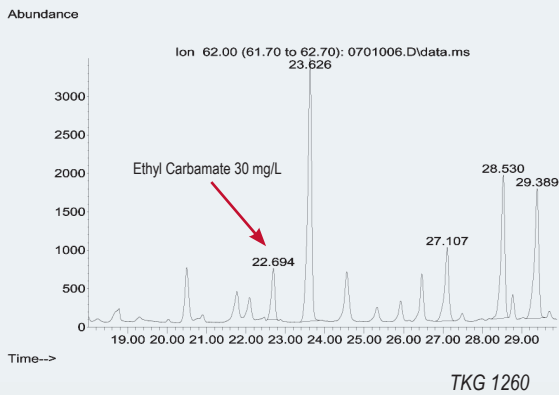


ETHYL CARBAMATE IN WINE

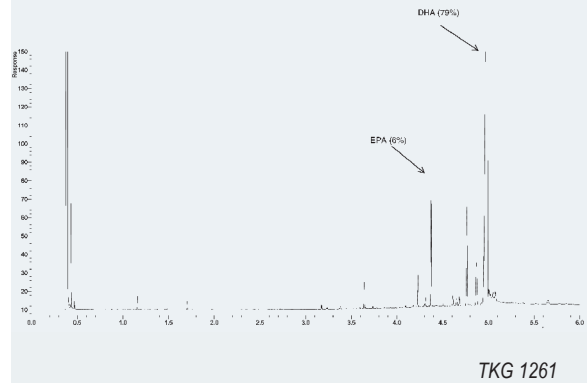
Column: **SupraWax-280**, 20m x 0.18mm x 0.18µm (P/N: TR-830984)
 Carrier gas: Helium, 1mL/min
 Injection: 1µL, split (30ppb of Ethyl Carbamate), 180°C
 Oven temp.: 40°C (0.75min) to 60°C @ 10°C/min to 150°C @ 3°C/min to 220°C(4.25min) @ 30°C/min
 Detector: MS (SIM, m/z 62, 74 and 89), transfer line 220°C

Chromatogram provided by Joan Garcia, INCAVI (Vilafranca del Penedés, Barcelona)



TUNA OIL WITH ADDED DHA

Column: **SupraWax-280**, 15m x 0.10mm x 0.10µm (P/N: TR-830111)
 Injection: 1µL Methylated sample, 280°C, split 100:1
 Carrier Gas: H₂, 45 psi (310.05 KPa)
 Oven: 100°C (0.5min) @ 50°C/min to 280°C (2min)
 Detector: FID, 280°C

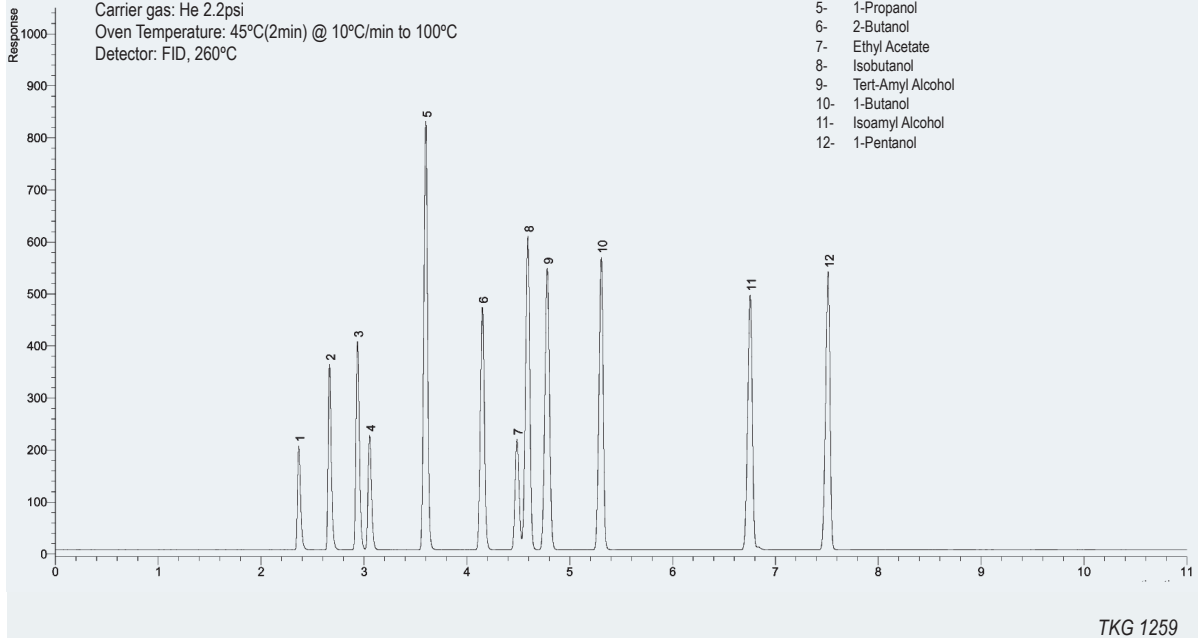


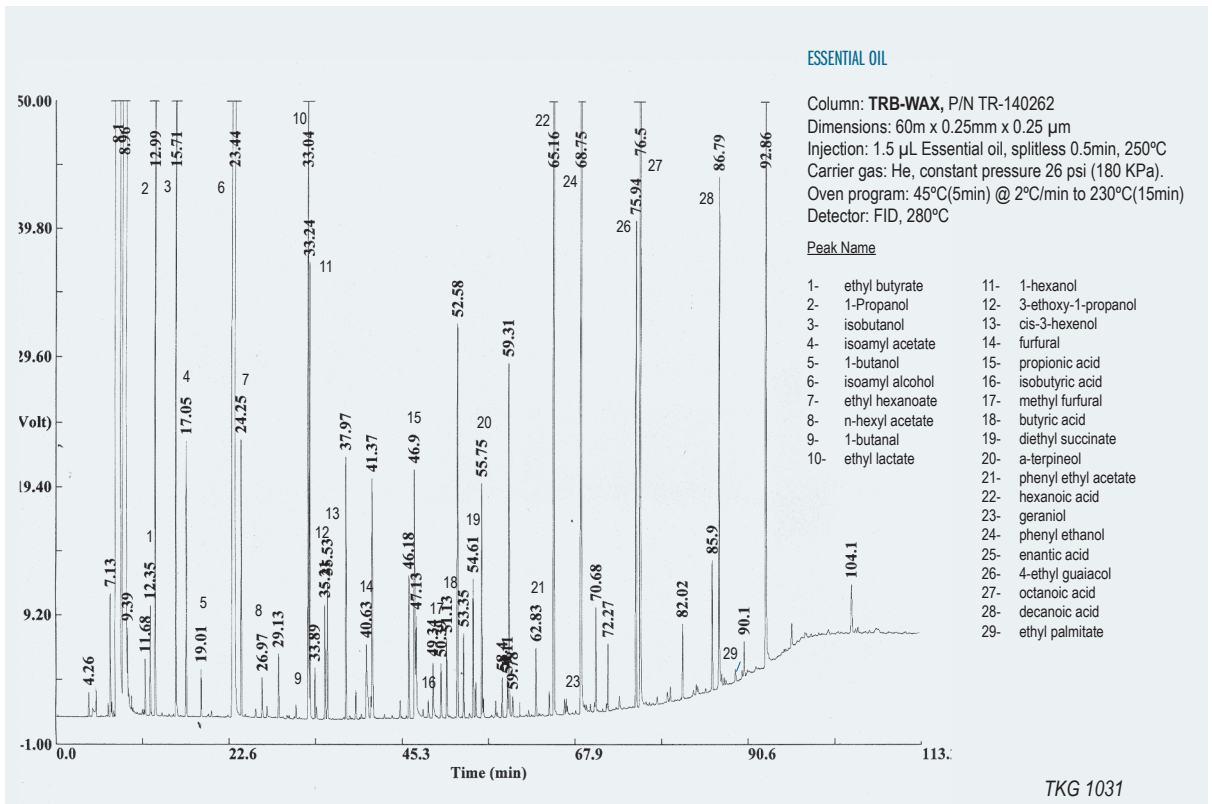
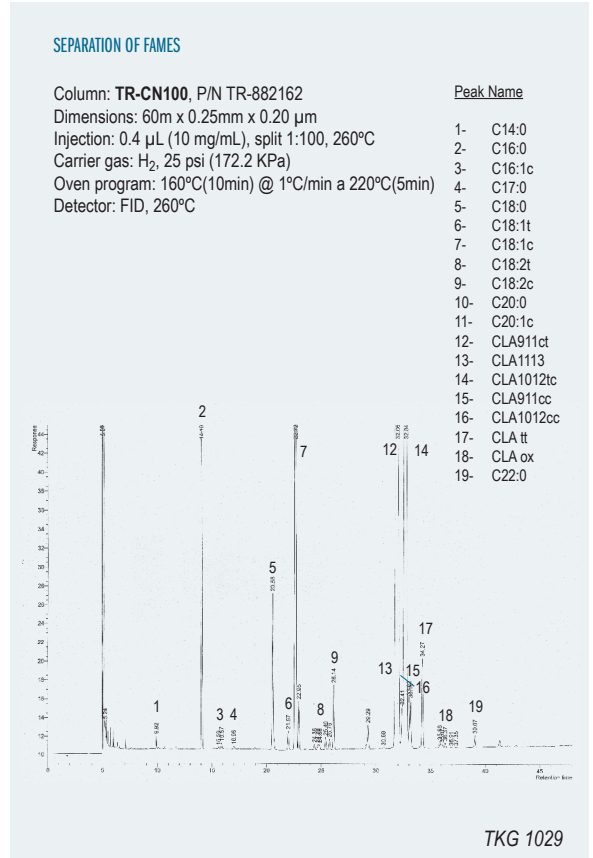
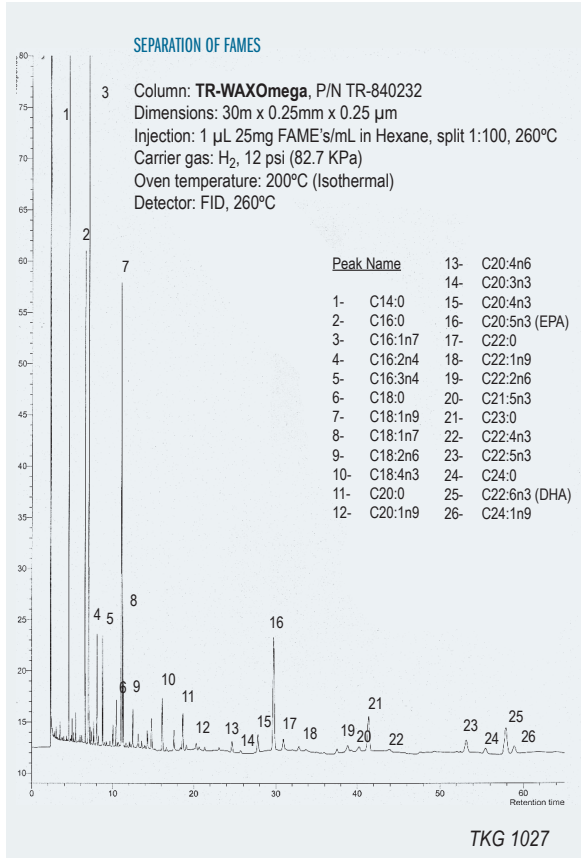
ALCOHOLS

Column: **TRB-20**, P/N TR-201235
 Dimensions: 30m x 0.53mm x 1.2µm
 Injection: wed needle, 260°C, split 1:100
 Carrier gas: He 2.2psi
 Oven Temperature: 45°C(2min) @ 10°C/min to 100°C
 Detector: FID, 260°C

Peak Name

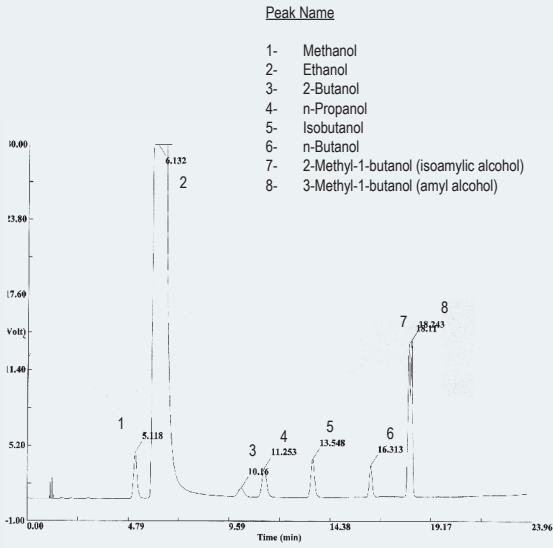
- 1- Methanol
- 2- Ethanol
- 3- 2-Propanol
- 4- Acetone
- 5- 1-Propanol
- 6- 2-Butanol
- 7- Ethyl Acetate
- 8- Isobutanol
- 9- Tert-Amyl Alcohol
- 10- 1-Butanol
- 11- Isoamyl Alcohol
- 12- 1-Pentanol





SEPARATION OF ALCOHOLS

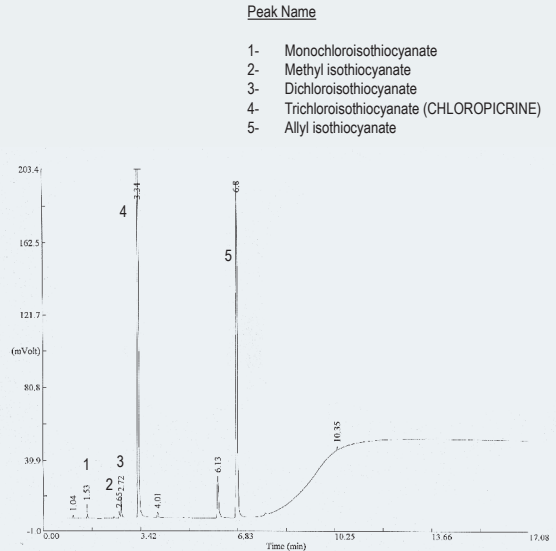
Column: **Meta .WAX**, P/N TR-811035
 Dimensions: 30m x 0.53mm x 1.0 µm
 Injection: 1 µL standard, split 1:4, 200°C
 Carrier gas: He, 3 psi (20.7 KPa)
 Oven temperature: 40°C(10min) @ 6°C/min to 125°C(5min)
 Detector: FID, 200°C



TKG 1030

ANALYSIS OF CHLOROPICRINE IN WINES

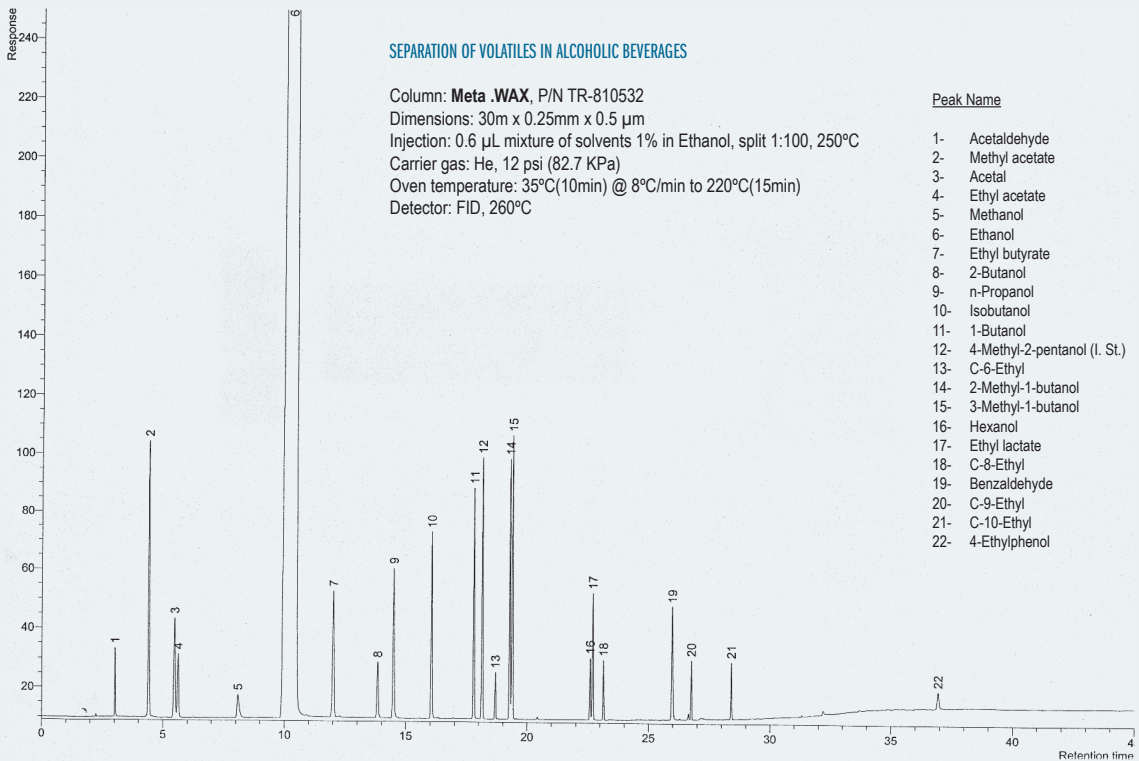
Column: **TRB-5**, P/N TR-120232
 Dimensions: 30m x 0.25mm x 0.25 µm
 Injection: 1 µL standard (5mg/L), 200°C
 Carrier gas: H₂, 12 psi (82.7 KPa)
 Oven temperature: 43°C(7min) @ 30°C/min to 120°C(10min)
 Detector: ECD, 300°C



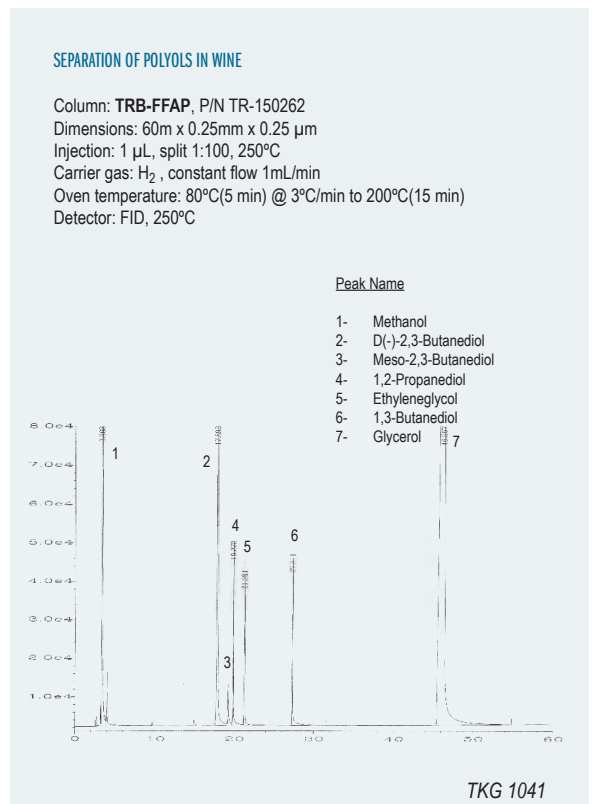
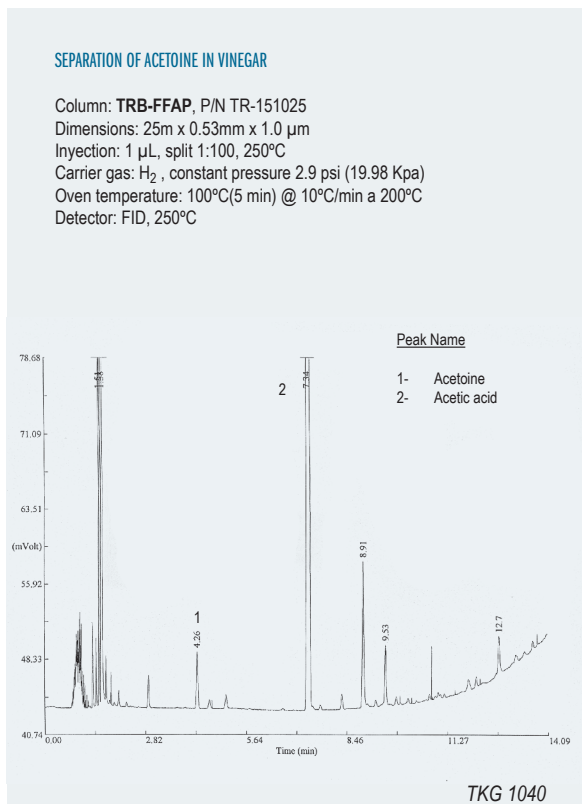
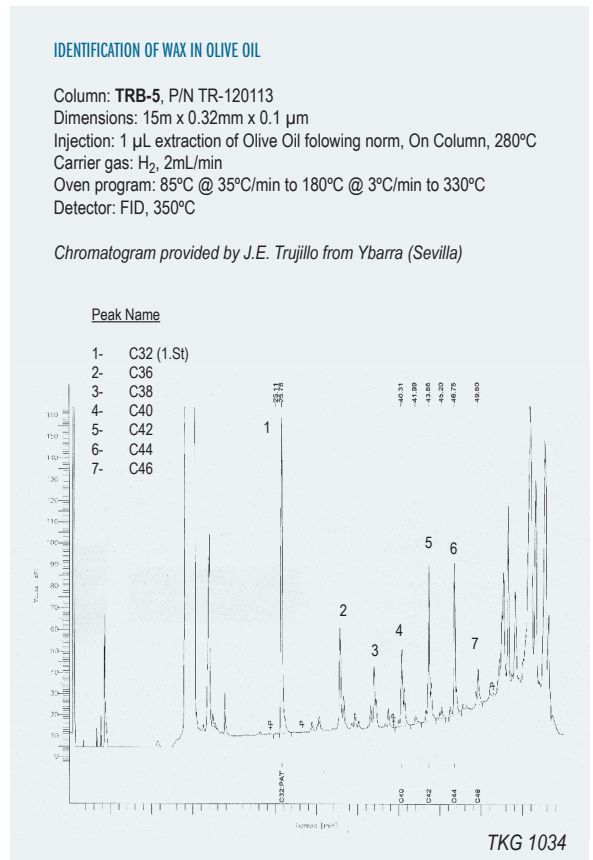
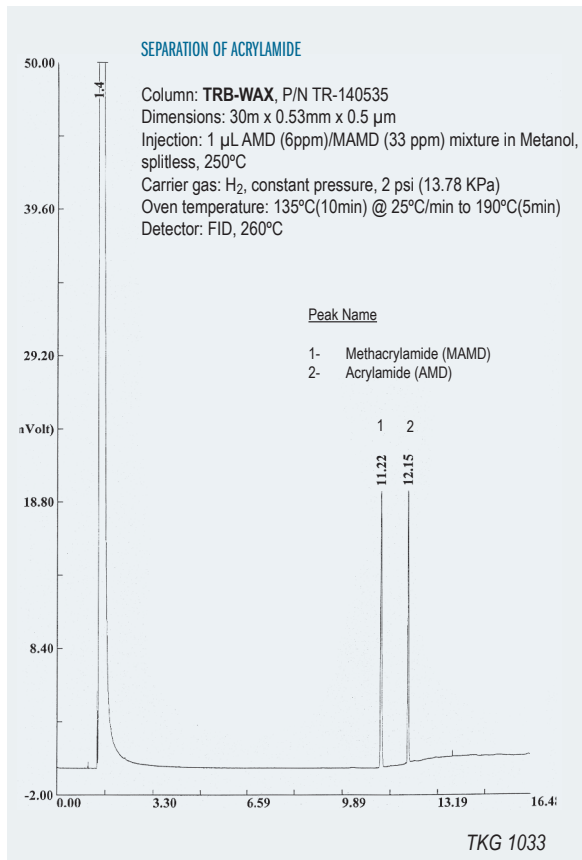
TKG 1032

SEPARATION OF VOLATILES IN ALCOHOLIC BEVERAGES

Column: **Meta .WAX**, P/N TR-810532
 Dimensions: 30m x 0.25mm x 0.5 µm
 Injection: 0.6 µL mixture of solvents 1% in Ethanol, split 1:100, 250°C
 Carrier gas: He, 12 psi (82.7 KPa)
 Oven temperature: 35°C(10min) @ 8°C/min to 220°C(15min)
 Detector: FID, 260°C

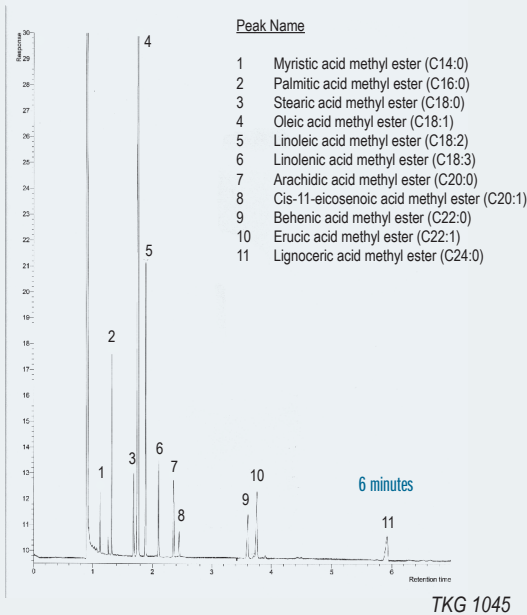


TKG 1026



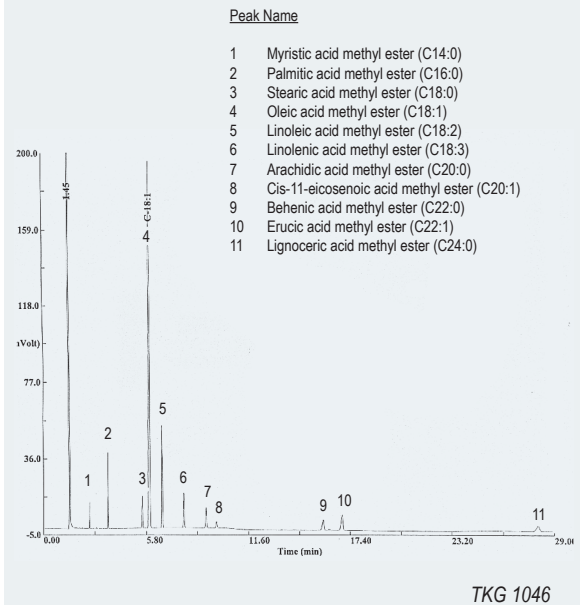
ANALYSIS OF RAPESEED OIL (FAST CHROMATOGRAPHY)

Column: **TRB-WAX**, P/N TR-142181
 Dimensions: 20m x 0.10mm x 0.2 μm
 Injection: 0.7 μL Rapeseed oil, split 1:500, 280°C
 Carrier gas: H₂, constant pressure, 54 psi (372 KPa), 41.15 cm/s
 Oven temperature: 205°C (Isothermal)
 Detector: FID, 280°C



ANALYSIS OF RAPESEED OIL

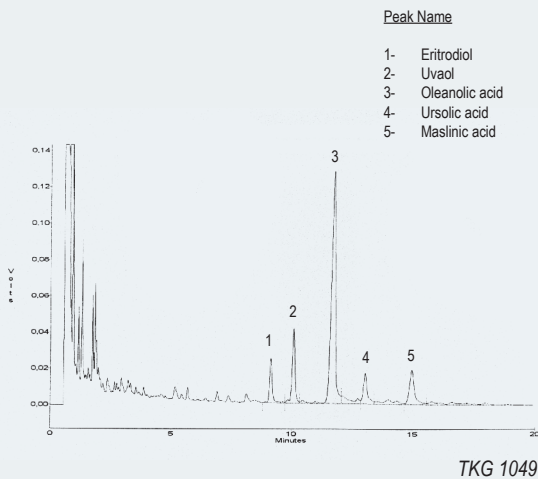
Column: **TRB-WAX**, P/N TR-140232
 Dimensions: 30m x 0.25mm x 0.25 μm
 Injection: 1 μL Rapeseed oil, split 1:50, 280°C
 Carrier gas: H₂, 36.23 cm/s
 Oven temperature: 205°C (Isothermal)
 Detector: FID, 280°C



ALCOHOLS AND TERPENIC ACIDS (OLIVE OIL)

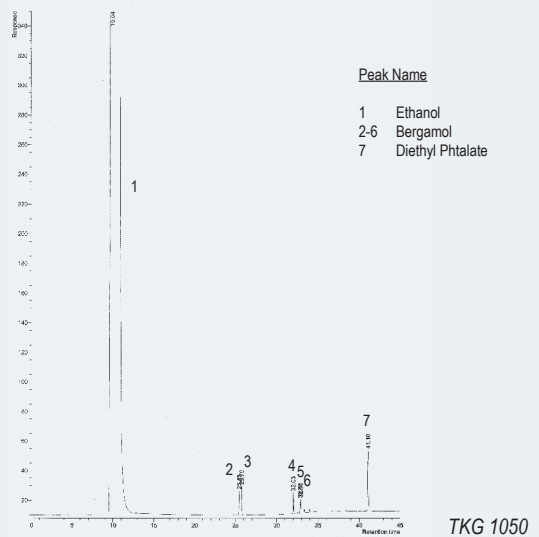
Column: **TRB-35**, P/N TR-351332
 Dimensions: 30m x 0.25mm x 0.15 μm
 Injection: 1 μL extract of leaf of Olive Tree, split 1:20, 300°C
 Carrier gas: H₂, constant pressure 12 psi (82.7 KPa).
 Oven temperature: 275°C
 Detector: FID, 300°C

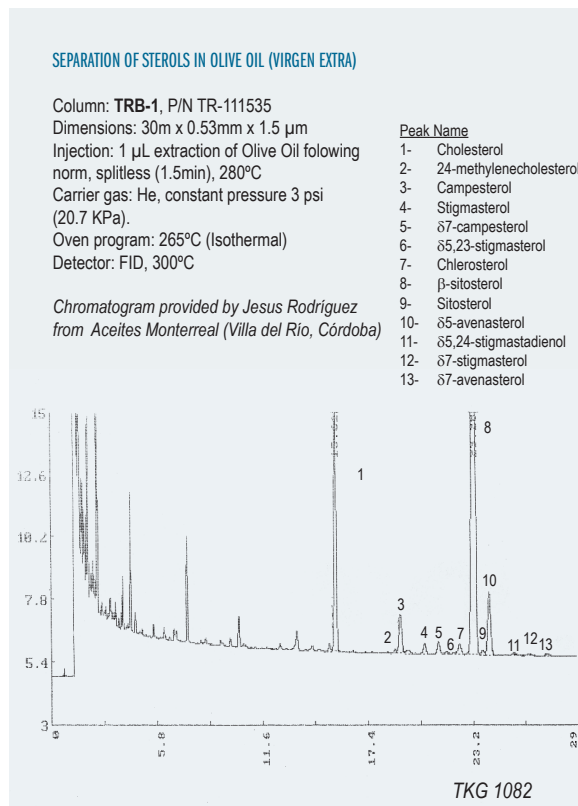
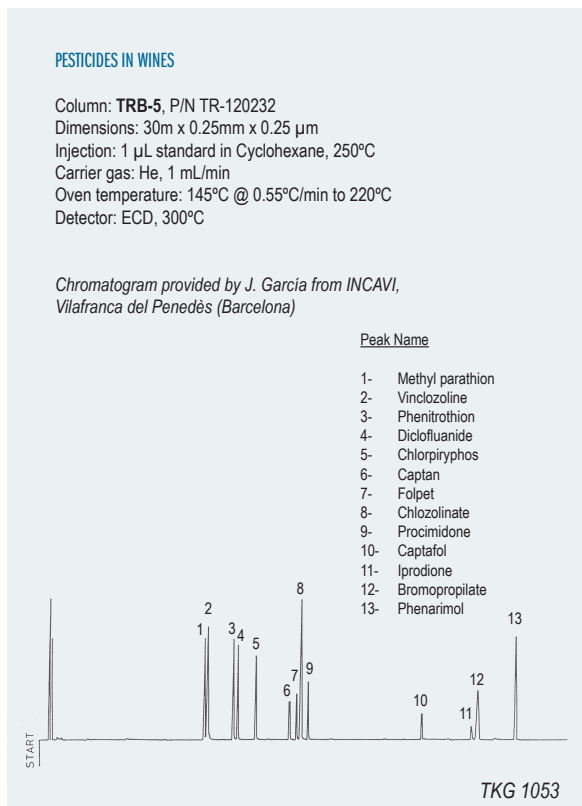
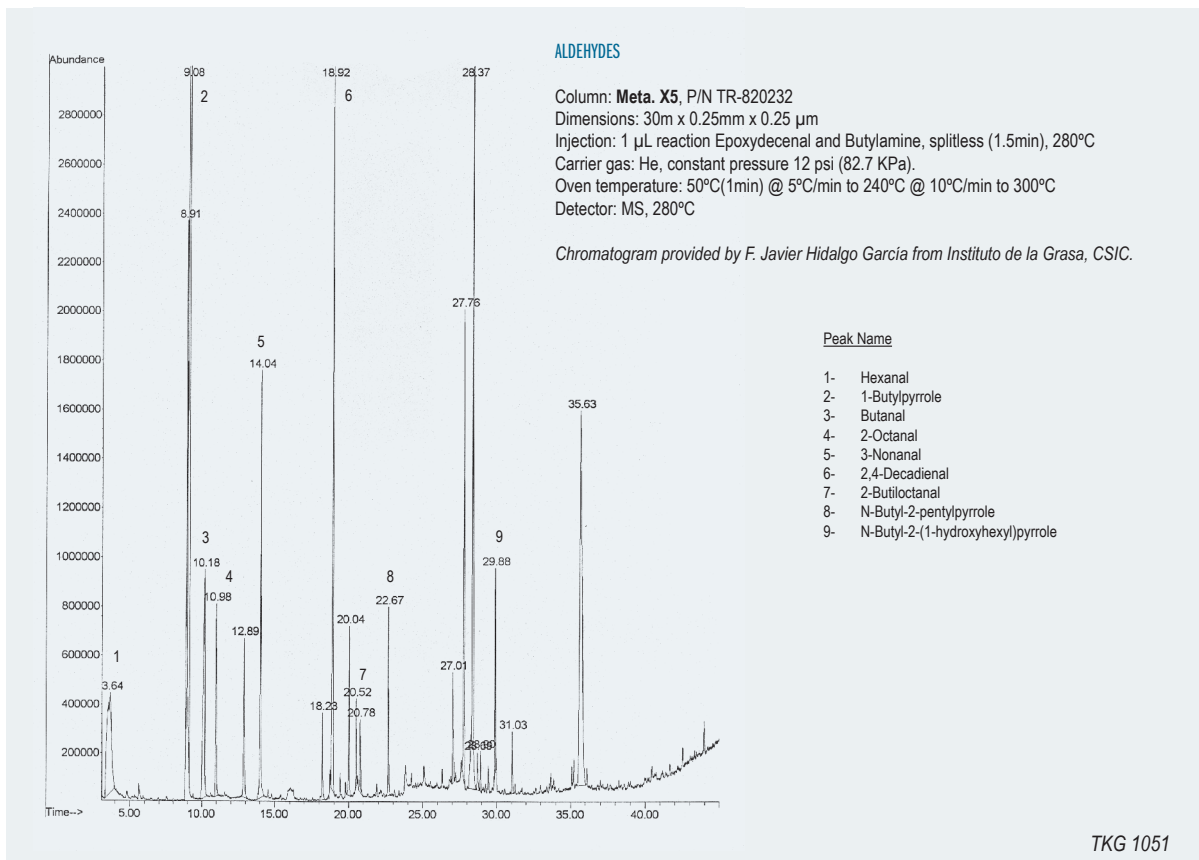
Chromatogram provided by Angeles Guinda from Instituto de la Grasa, CSIC.

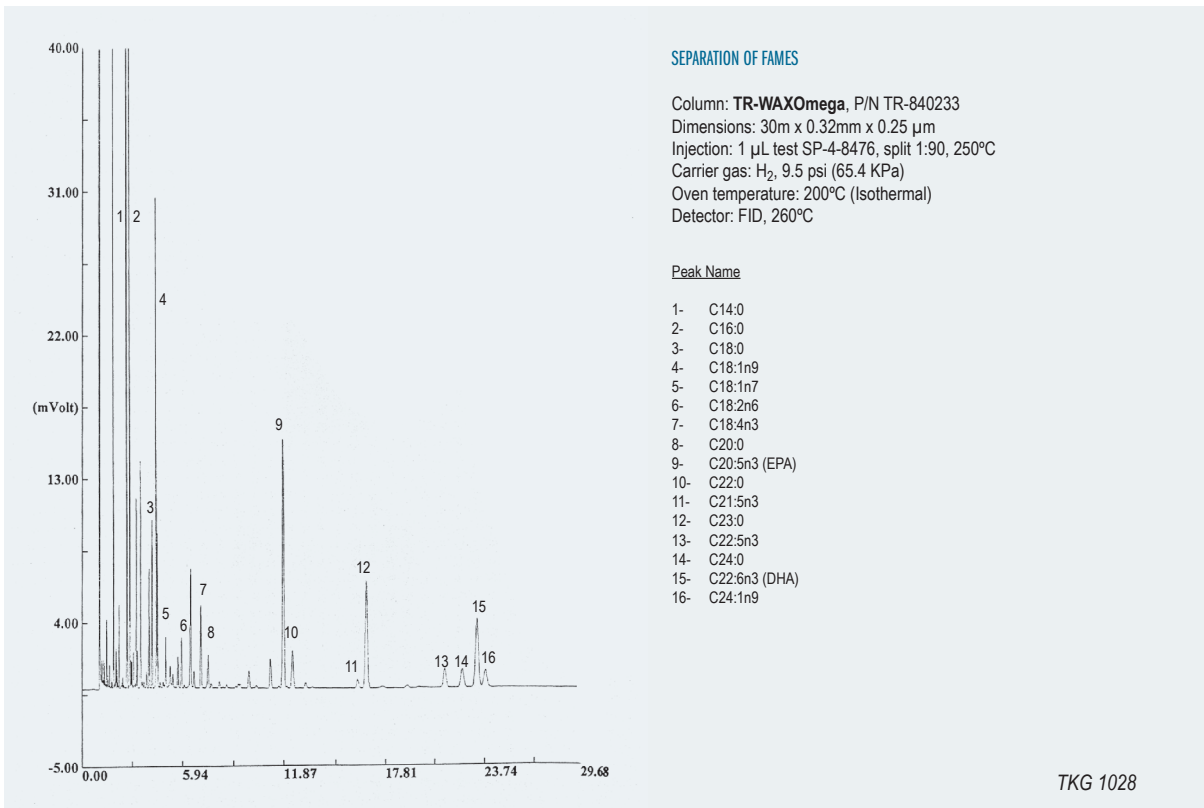
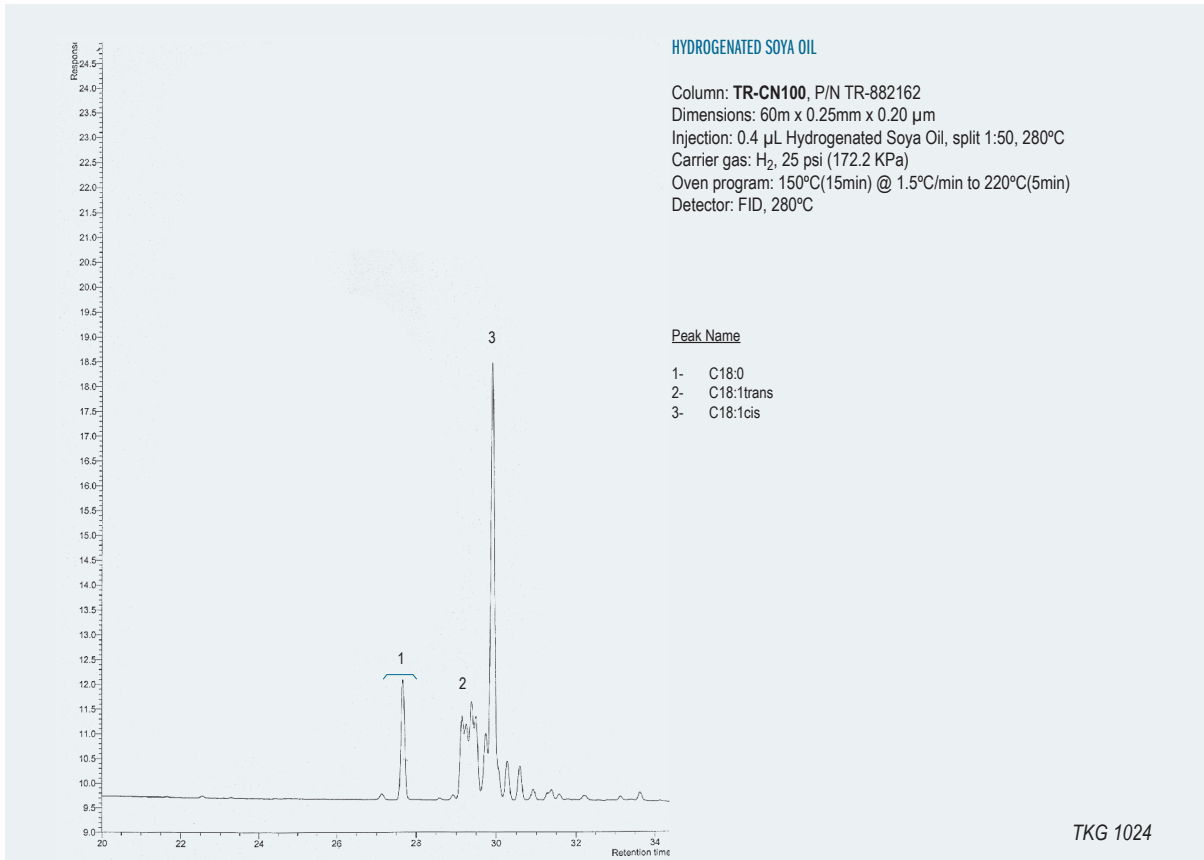


ANALYSIS BERGAMOL

Column: **Meta.WAX**, P/N TR-810532
 Dimensions: 30m x 0.25mm x 0.5 μm
 Injection: 1 μL standard 0.3% v/v Bergamol/Diethyl Phtalate in Ethanol, split 1:50, 260°C
 Carrier gas: H₂, 12 psi (82.7 KPa).
 Oven temperature: 35°C(10min) @ 8°C/min to 220°C(20min)
 Detector: FID, 260°C







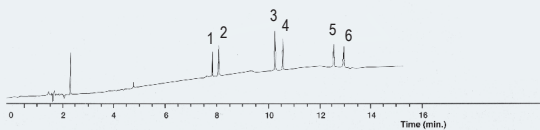
PHENOLS-ANISOL IN WINE

Column: **TR-5MS** P/N TR-520232
 Dimensions: 30m x 0.25mm x 0.25 μ m
 Injection: 280°C, 1 μ L (St 100 ppb), split (30:1)
 Carrier gas: H₂, 1.2 ml/min. 17 psi (117 kPa) to 80°C
 Oven temperature: 80°C to 120°C (5min) @ 10°C/min.
 Detector: ECD, 330°C

Peak Name

- 1- Trichlorophenol
- 2- Trichloroanisole
- 3- Tetrachlorophenol
- 4- Tetrachloroanisole
- 5- Pentachlorophenol
- 6- Pentachloroanisole

Exceptional symmetry of the peaks at traces level



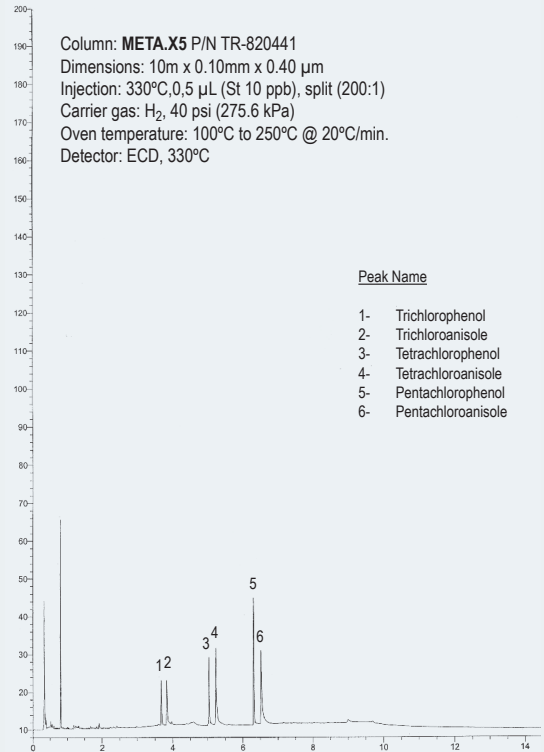
TKG 1068

PHENOL-ANISOL IN WINE (FAST CHROMATOGRAPHY)

Column: **META.X5** P/N TR-820441
 Dimensions: 10m x 0.10mm x 0.40 μ m
 Injection: 330°C, 0.5 μ L (St 10 ppb), split (200:1)
 Carrier gas: H₂, 40 psi (275.6 kPa)
 Oven temperature: 100°C to 250°C @ 20°C/min.
 Detector: ECD, 330°C

Peak Name

- 1- Trichlorophenol
- 2- Trichloroanisole
- 3- Tetrachlorophenol
- 4- Tetrachloroanisole
- 5- Pentachlorophenol
- 6- Pentachloroanisole



TKG 1193

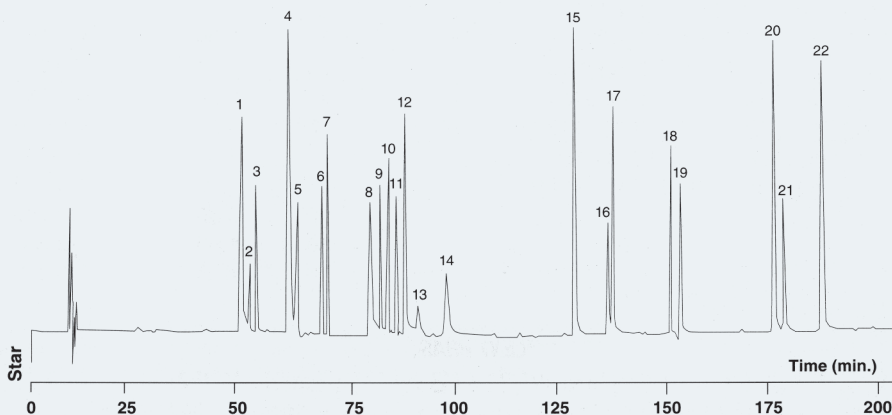
PHYTOSANITARY ANALYSIS IN WINE

Column: **Meta.X5** P/N TR-820232
 Dimensions: 30m x 0.25mm x 0.25 μ m
 Injection: 2.0 μ L split (1:100), 250°C
 Carrier gas: He, 1 ml/min.
 Oven temperature: 140°C to 180°C @ 0.4°C/min. to 270°C(15min.) @ 1°C/min.
 Detector: ECD, 300°C, make up Argon/methane (95/5)
 Sample: Phytosanitary standard INCAVI, (70-680 μ g/L of each component)

Chromatogram supplied by M. Jaldo, J. Garcia (Incavi) and J. Marco (Torres, S.A.)

Peak Name

- 1- Methylchlorpyrifos
- 2- Methylparathion
- 3- Vinclozoline
- 4- Fenitrothion
- 5- Dichlofluamide
- 6- Malathion
- 7- Chlorpyrifos
- 8- Captan
- 9- Penconazol
- 10- Folpet
- 11- Chlozolinate
- 12- Triadimenol + Proclimidione
- 13- Triadimenol
- 14- Hexocanazol
- 15- Captafol
- 16- Iprodione
- 17- Bromopropylate
- 18- Fenarimol
- 19- Cyalotrin
- 20- Fenvalerate
- 21- Fenvalerate
- 22- Azoxystrobine

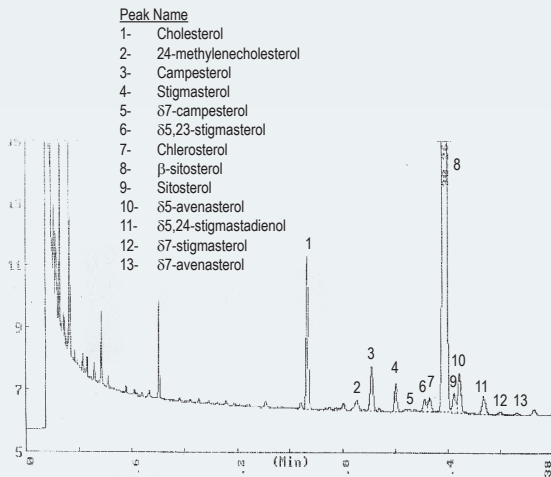


TKG 1079

SEPARATION OF STEROLS IN OLIVE OIL (ORUJO)

Column: **TRB-1**, P/N TR-111535
 Dimensions: 30m x 0.53mm x 1.5 µm
 Injection: 1 µL extraction of Olive Oil following norm, splitless (1.5min), 280°C
 Carrier gas: He, constant pressure 3 psi (20.7 KPa).
 Oven program: 265°C (Isothermal)
 Detector: FID, 300°C

Chromatogram provided by Jesus Rodriguez from Aceites Monterreal (Villa del Río, Córdoba)

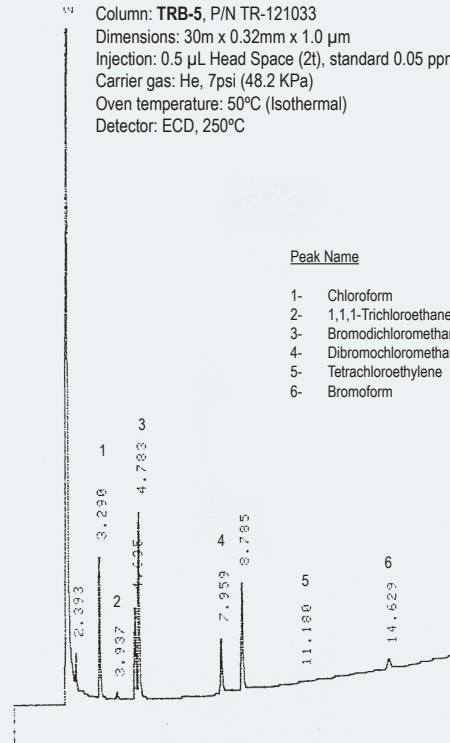


- Peak Name**
- 1- Cholesterol
 - 2- 24-methylenecholesterol
 - 3- Campesterol
 - 4- Stigmasterol
 - 5- δ7-campesterol
 - 6- δ5,23-stigmasterol
 - 7- Chlosterol
 - 8- β-sitosterol
 - 9- Sitosterol
 - 10- δ5-avenasterol
 - 11- δ5,24-stigmastadienol
 - 12- δ7-stigmasterol
 - 13- δ7-avenasterol

TKG 1083

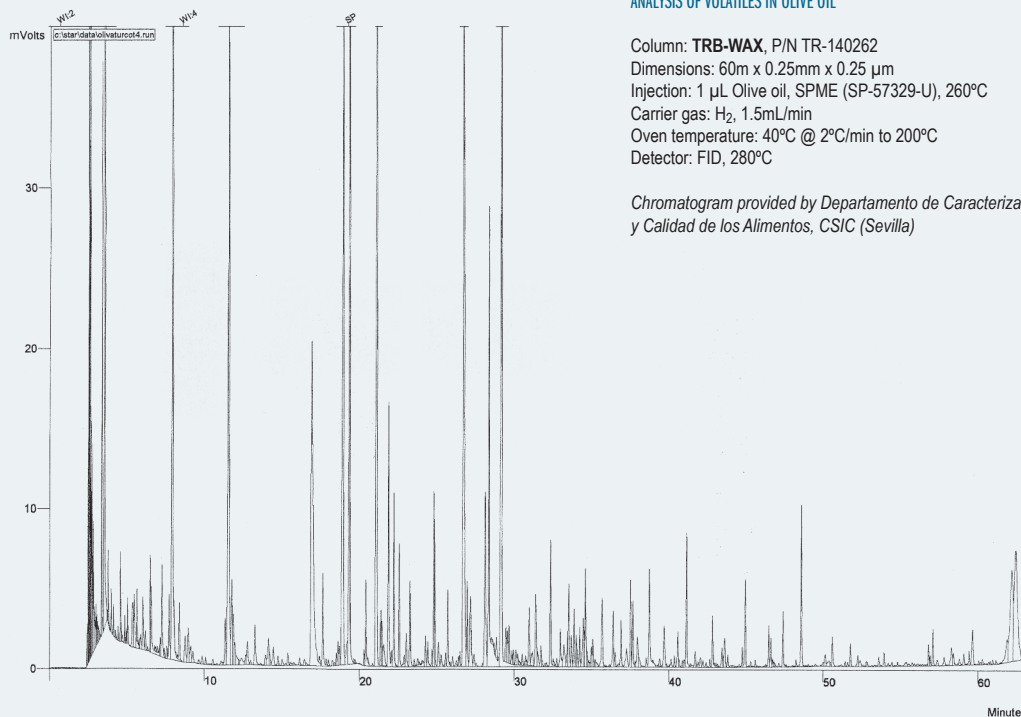
CHLORINATED SOLVENTS IN OLIVE OIL

Column: **TRB-5**, P/N TR-121033
 Dimensions: 30m x 0.32mm x 1.0 µm
 Injection: 0.5 µL Head Space (2t), standard 0.05 ppm, 150°C
 Carrier gas: He, 7psi (48.2 KPa)
 Oven temperature: 50°C (Isothermal)
 Detector: ECD, 250°C



- Peak Name**
- 1- Chloroform
 - 2- 1,1,1-Trichloroethane
 - 3- Bromodichloromethane
 - 4- Dibromochloromethane
 - 5- Tetrachloroethylene
 - 6- Bromoform

TKG 1092



ANALYSIS OF VOLATILES IN OLIVE OIL

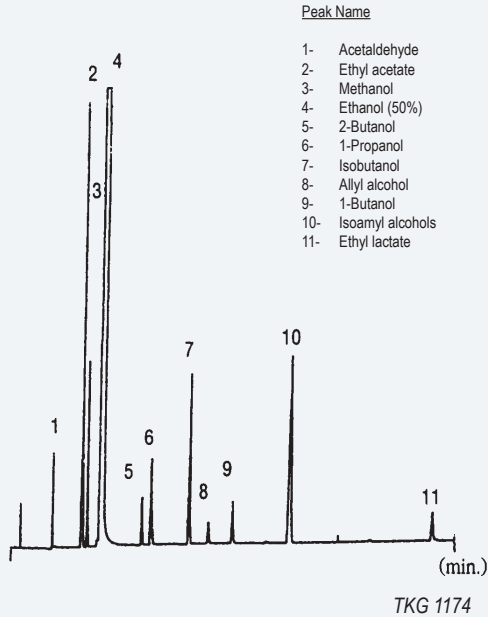
Column: **TRB-WAX**, P/N TR-140262
 Dimensions: 60m x 0.25mm x 0.25 µm
 Injection: 1 µL Olive oil, SPME (SP-57329-U), 260°C
 Carrier gas: H₂, 1.5mL/min
 Oven temperature: 40°C @ 2°C/min to 200°C
 Detector: FID, 280°C

Chromatogram provided by Departamento de Caracterización y Calidad de los Alimentos, CSIC (Sevilla)

TKG 1091

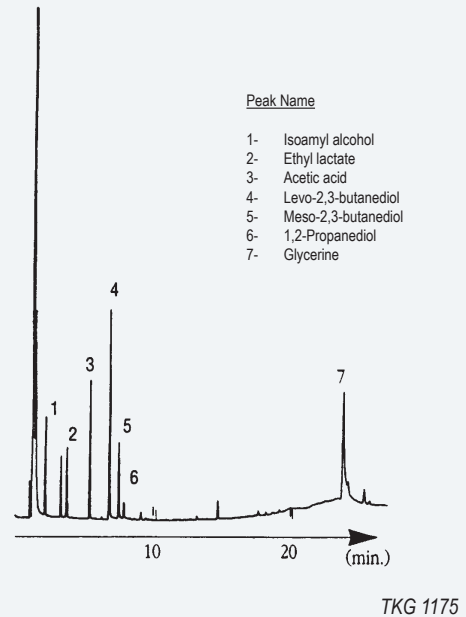
SEPARATION OF VOLATILES IN ALCOHOLIC BEVERAGES

Column: **TRB-WAX**, P/N TR-141035
 Dimensions: 30m x 0.53mm x 1.0 µm
 Injection: 1 µL, split
 Carrier gas: He, 5 psi (34.5 KPa)
 Oven temperature: 40°C @ 2°C/min to 150°C
 Detector: FID, 225°C



ANALYSIS OF GLYCOLS IN WINE

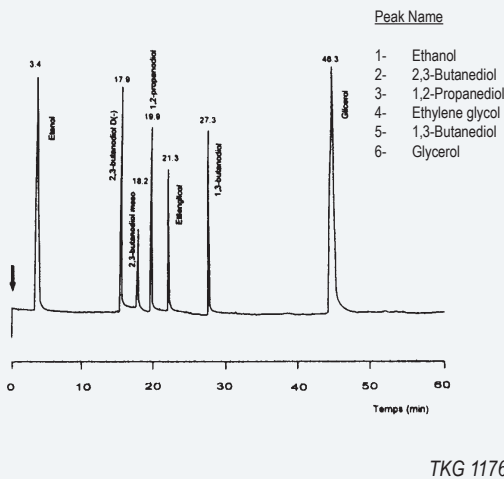
Column: **TRB-FFAP**, P/N TR-151035
 Dimensions: 30m x 0.53mm x 1.0 µm
 Injection: 1 µL, split
 Carrier gas: He, 4 psi (27.6 KPa)
 Oven temperature: 100°C @ 5°C/min to 200°C(10 min)
 Detector: FID, 275°C



ANALYSIS OF POLYOLS IN WINE

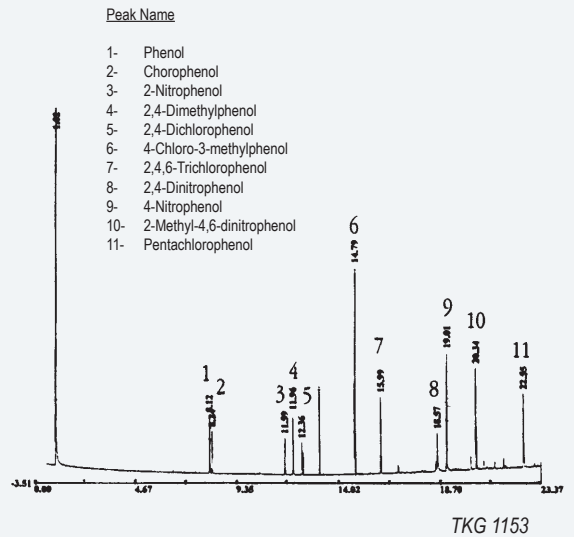
Column: **TRB-FFAP**, P/N TR-150262
 Dimensions: 60m x 0.25mm x 0.25 µm
 Injection: 1 µL, split (100:1), glycols standard, 205°C
 Carrier gas: H₂, 1 mL/min (80°C)
 Oven temperature: 100°C @ 5°C/min to 200°C(10 min)
 Detector: FID, 275°C

Chromatogram provided by R. Franquet and J. Garcia from INCAVI, Vilafranca del Penedès (Barcelona)



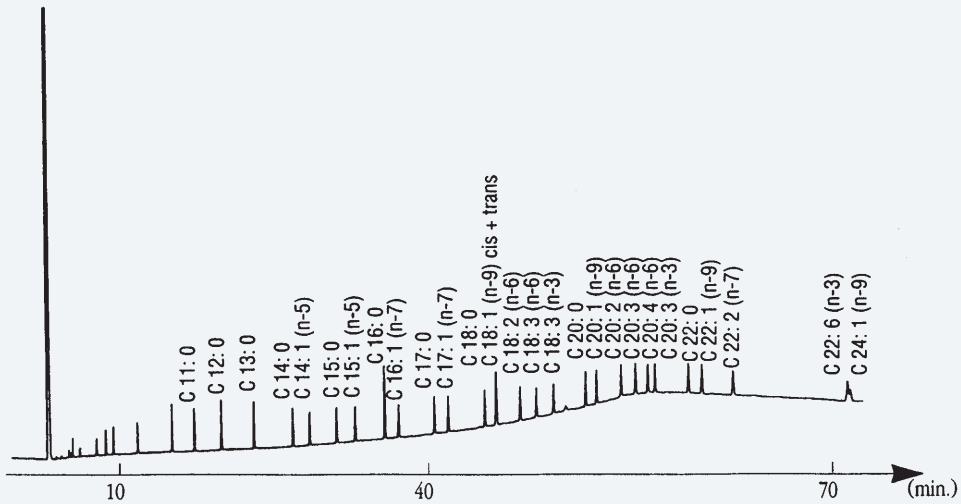
PHENOLS EPA 604

Column: **TRB-5**, P/N TR-120232
 Dimensions: 30m x 0.25mm x 0.25 µm
 Injection: 1 µL, split, 2 to 6 ng/comp, 250°C
 Carrier gas: H₂, 12 psi (82.68 KPa)
 Oven temperature: 80°C(4min) @ 8°C/min to 250°C
 Detector: FID, 280°C



SEPARATION OF FAMES

Column: **TR-WAX**, P/N TR-140262
 Dimensions: 60m x 0.25mm x 0.25 μm
 Injection: 1 μL, split
 Carrier gas: He, 26 psi (179.1 KPa)
 Oven temperature: 60°C @ 30°C/min to 150°C @ 2°C/min to 240°C
 Detector: FID, 275°C



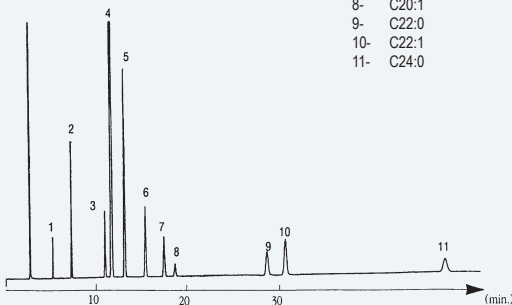
TKG 1177

SEPARATION OF METHYL ESTERS (RAPESEED OIL)

Column: **TRB-WAX**, P/N TR-141035
 Dimensions: 30m x 0.53mm x 1.0 μm
 Injection: 1 μL, split
 Carrier gas: He, 4psi (27.6 KPa)
 Oven temperature: 220°C (Isothermal)
 Detector: FID, 280°C

Peak Name

- 1- C14:0
- 2- C16:0
- 3- C18:0
- 4- C18:1
- 5- C18:2
- 6- C18:3
- 7- C20:0
- 8- C20:1
- 9- C22:0
- 10- C22:1
- 11- C24:0



TKG 1179

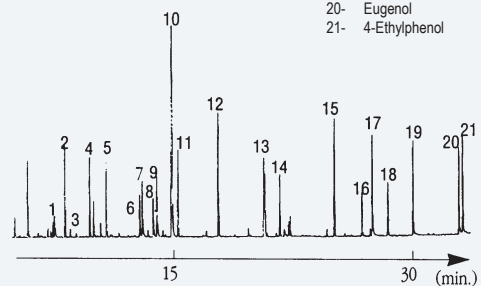
FLAVORS IN WINE

Column: **TRB-WAX**, P/N TR-142168
 Dimensions: 60m x 0.22mm x 0.20 μm
 Injection: 1 μL, split
 Carrier gas: He, 1 mL/min
 Oven temperature: 45°C @ 5°C/min to 230°C
 Detector: FID, 250°C

Peak Name

- 1- 2-Butanol
- 2- Ethyl isovalerate
- 3- 1-Butanol
- 4- Ethyl caproate
- 5- n-Hexyl acetate
- 6- Ethyl lactate
- 7- 1-Hexanol
- 8- 3-Ethoxy-1-propanol
- 9- cis-3-hexen-1-ol
- 10- 2-Octanol (l. St.)
- 11- Ethyl caprylate
- 12- Benzaldehyde
- 13- Ethyl caprate
- 14- γ-Butyrolactone
- 15- 2-Phenylethanol acetate
- 16- Trans-β-methyl-γ-octalactone
- 17- 2-Phenylethanol
- 18- Cis-β-methyl-γ-octalactone
- 19- 4-Ethylguaiaicol
- 20- Eugenol
- 21- 4-Ethylphenol

Chromatogram provided by M. Creixell,
 R. Franquet and J. Garcia from INCAVI,
 Vilafranca del Penedès, Barcelona.

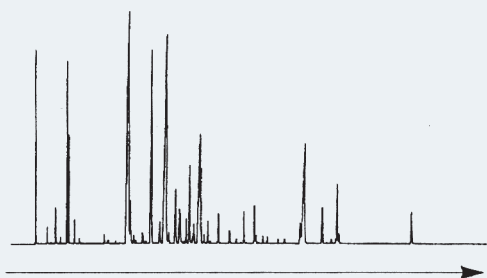


TKG 1180

LAVANDER FLAVOR

Column: **TRB-WAX**, P/N TR-140232
 Dimensions: 30m x 0.25mm x 0.25 µm
 Injection: 1 µL, split
 Carrier gas: He, 90 KPa
 Oven temperature: 80°C @ 4°C/min to 230°C(20 min)
 Detector: FID, 260°C

Chromatogram provided by C. Ibañez from Lucta, S.A, Barcelona.

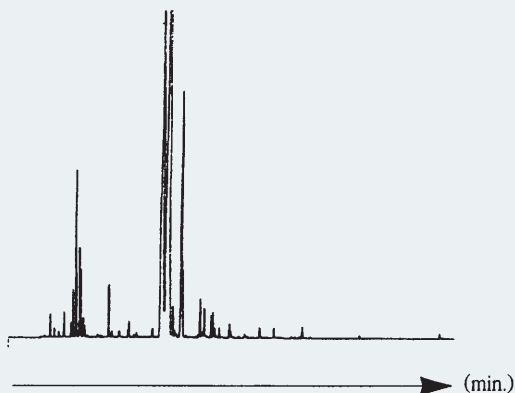


TKG 1181

FLAVORS (LAVANDER, ESSENTIAL OIL)

Column: **TRB-WAX**, P/N TR-140232
 Dimensions: 30m x 0.25mm x 0.25 µm
 Injection: 1 µL, split
 Carrier gas: He, 90 KPa
 Oven temperature: 80°C @ 4°C/min to 230°C(20 min)
 Detector: FID, 260°C

Chromatogram provided by C. Ibañez from Lucta, S.A, Barcelona.

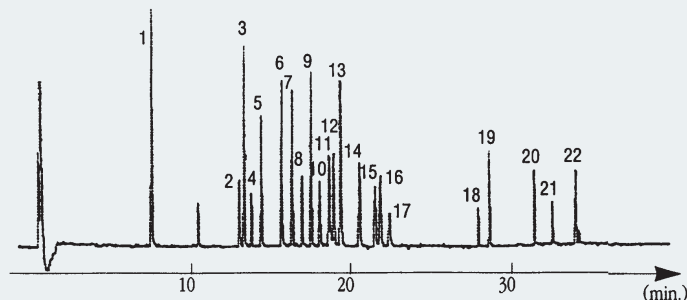


TKG 1182

ANALYSIS OF PESTICIDES

Column: **TRB-5**, P/N TR-120232
 Dimensions: 30m x 0.25mm x 0.25 µm
 Injection: split
 Carrier gas: He
 Oven temperature: 125°C(1 min) @ 8°C/min to 200°C(10 min) @ 20°C/min to 270°C(15 min)
 Detector: FPD, 280°C

Chromatogram provided by E. Casado from Laboratorio de Plagidas of Centro Nacional de Alimentación y Nutrición, Madrid.



Peak Name

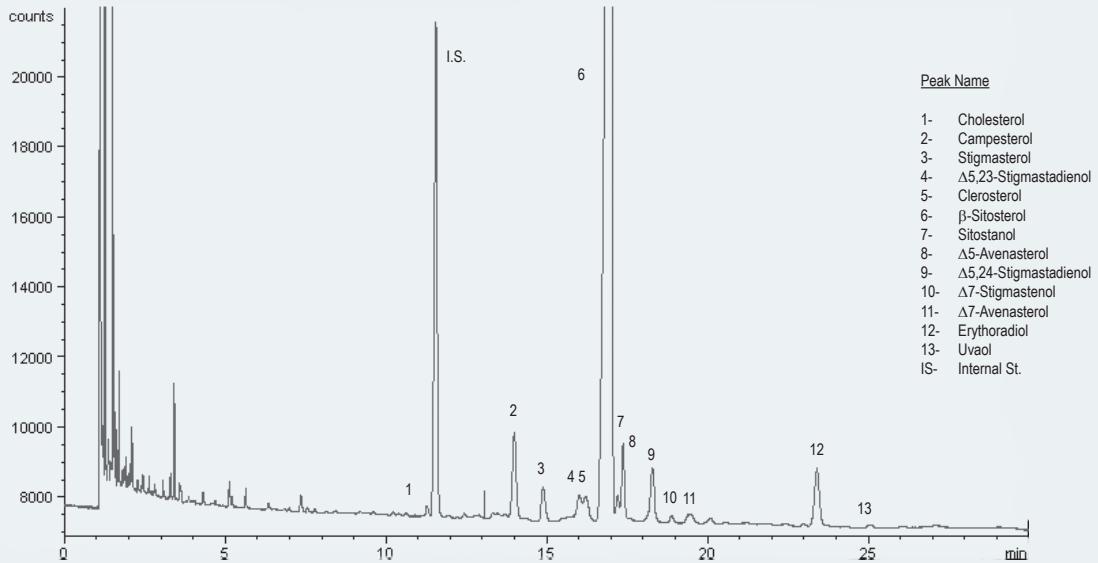
- 1- Metacriphos
- 2- Dioxathion
- 3- Fonofos
- 4- Diazinon
- 5- Etrimfos
- 6- Methyl parathion
- 7- Fenclorphos
- 8- Fenitrothion
- 9- Malathion
- 10- Ethyl parathion
- 11- Ruelene
- 12- Methyl bromophos
- 13- Ethyl pyrimphos
- 14- Isofenphos
- 15- Meditathion
- 16- Ethyl bromophos
- 17- Gardona
- 18- Ethion
- 19- Trithion
- 20- Fosalon
- 21- Cumaphos

TKG 1183

STEROLS ANALYSIS (REFINATED OLIVE OIL)

Column: **TRB-STEROL**, P/N TR-182238
 Dimensions: 30m x 0.22mm x 0.22 μm
 Injection: split
 Carrier gas: H₂, 20 psi (137.8 KPa)
 Oven temperature: 275°C (Isothermal)
 Detector: FID, 300°C

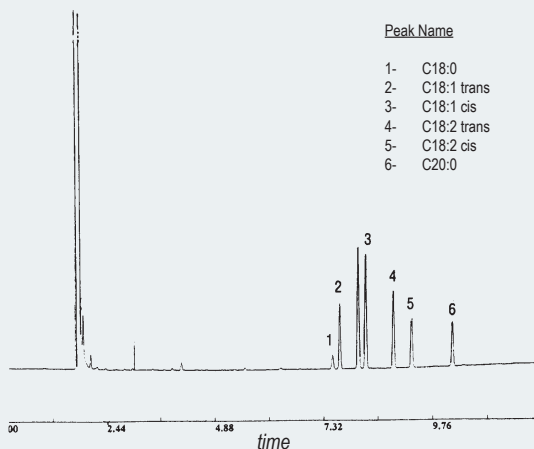
Chromatogram provided by Dr. Manuel León from Instituto de la Grasa, Sevilla



TKG 1184

ANALYSIS OF CIS-TRANS ISOMERS

Column: **TR-CN100**, P/N TR-882133
 Dimensions: 30m x 0.32mm x 0.20mm
 Injection: 1 μL isomers standard, split
 Carrier gas: H₂, 4.5 psi (31 KPa)
 Oven temperature: 140°C @ 4°C/min to 190°C
 Detector: FID, 250°C

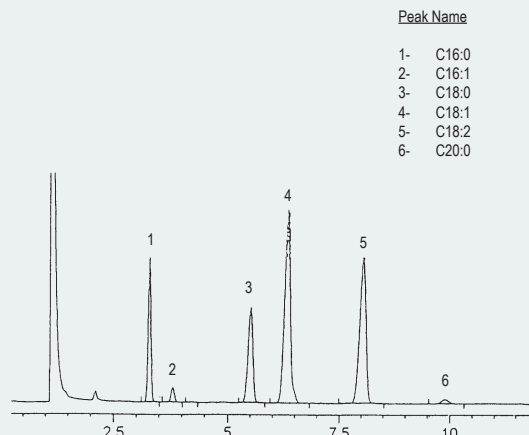


TKG 1185

ANALYSIS OF METHYL ESTERS

Column: **TR-CN100**, P/N TR-882135
 Dimensions: 30m x 0.53mm x 0.20 μm
 Injection: 2 μL FAMES standard, split
 Carrier gas: He, 20 KPa
 Oven temperature: 130°C(5 min) @ 3°C/min to 160°C
 Detector: FID, 250°C

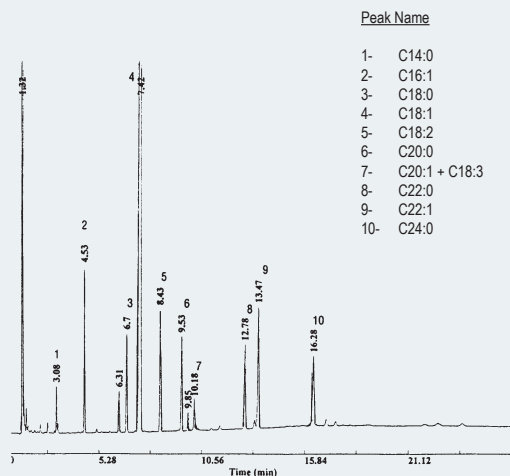
Chromatogram provided by Dr. R. Garcés from Instituto de la Grasa, Sevilla.



TKG 1186

ANALYSIS OF METHYL ESTERS

Column: **TR-CN100**, P/N TR-882113
 Dimensions: 15m x 0.32mm x 0.20 µm
 Injection: 1 µL FAMES standard, split
 Carrier gas: H₂, 2.4 psi (16.6 KPa)
 Oven temperature: 140°C @ 3°C/min to 185°C
 Detector: FID, 250°C

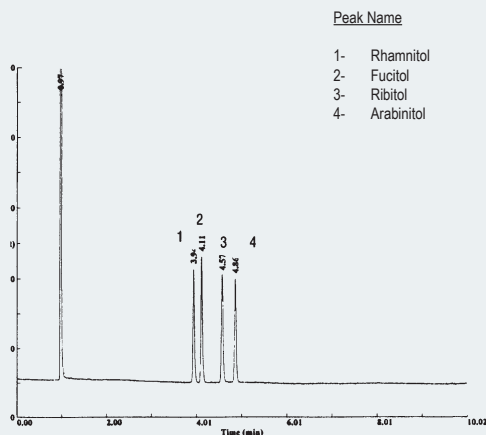


Peak Name
1- C14:0
2- C16:1
3- C18:0
4- C18:1
5- C18:2
6- C20:0
7- C20:1 + C18:3
8- C22:0
9- C22:1
10- C24:0

TKG 1187

SEPARATION OF SUGARS (AS ALDITOL ACETATES)

Column: **TRB-225**, P/N TR-250232
 Dimensions: 30m x 0.25mm x 0.25 µm
 Injection: 1 µL Sugars standard, split
 Carrier gas: H₂, 11 psi (75.8 KPa)
 Oven temperature: 220°C (Isothermal)
 Detector: FID, 250°C

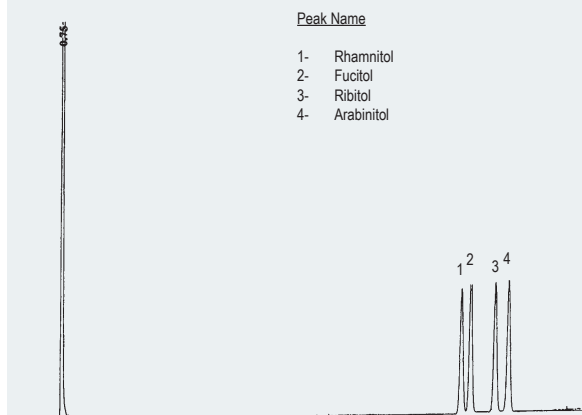


Peak Name
1- Rhamnitol
2- Fucitol
3- Ribitol
4- Arabinitol

TKG 1188

SEPARATION OF SUGARS (AS ALDITOL ACETATES)

Column: **TRB-1701**, P/N TR-130212
 Dimensions: 15m x 0.25mm x 0.25 µm
 Injection: 1 µL Sugars standard, split
 Carrier gas: H₂, 6 psi (41.3 KPa)
 Oven temperature: 180°C @ 4°C/min to 215°C
 Detector: FID, 250°C

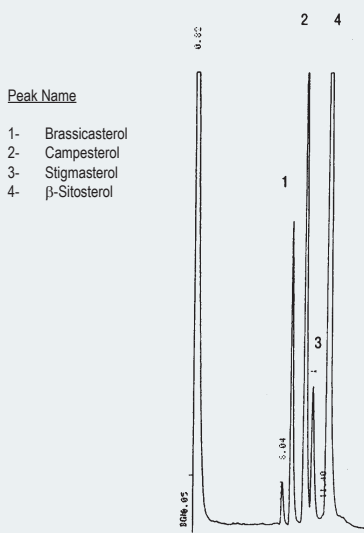


Peak Name
1- Rhamnitol
2- Fucitol
3- Ribitol
4- Arabinitol

TKG 1189

SEPARATION OF STEROLS

Column: **TRB-5**, P/N TR-120535
 Dimensions: 30m x 0.53mm x 0.50 µm
 Injection: 0.1 µL Sterols standard, direct injection
 Carrier gas: H₂, 4 psi (27.6 KPa)
 Oven temperature: 275°C (Isothermal)
 Detector: FID, 300°C

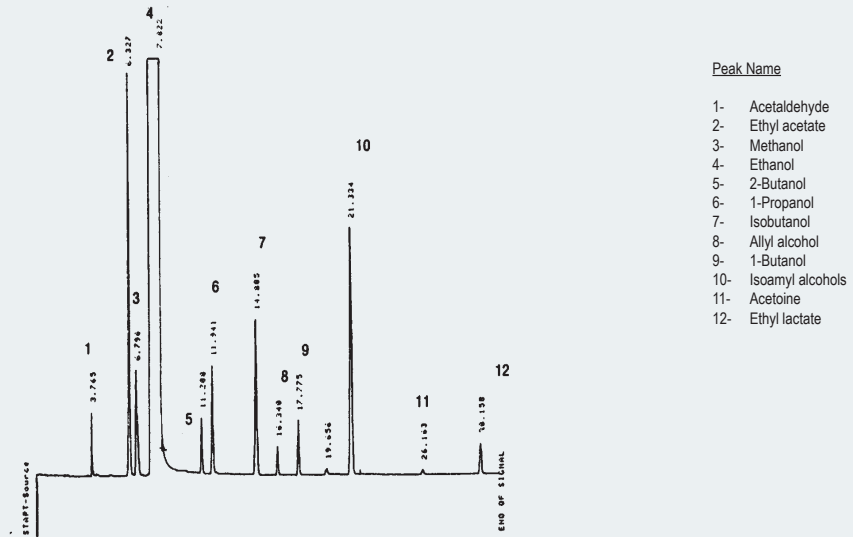


Peak Name
1- Brassicasterol
2- Campesterol
3- Stigmasterol
4- β-Sitosterol

TKG 1190

SEPARATION OF VOLATILES IN ALCOHOLIC BEVERAGES

Column: **TRB-WAX**, P/N TR-141035
 Dimensions: 30m x 0.53mm x 1.0 µm
 Injection: 0.3 µL standard, direct injection (injector of packed columns)
 Carrier gas: N₂, 4.5 mL/min
 Oven temperature: 40°C @ 2°C/min to 110°C
 Detector: FID, 250°C



Peak Name
1- Acetaldehyde
2- Ethyl acetate
3- Methanol
4- Ethanol
5- 2-Butanol
6- 1-Propanol
7- Isobutanol
8- Allyl alcohol
9- 1-Butanol
10- Isoamyl alcohols
11- Acetoin
12- Ethyl lactate

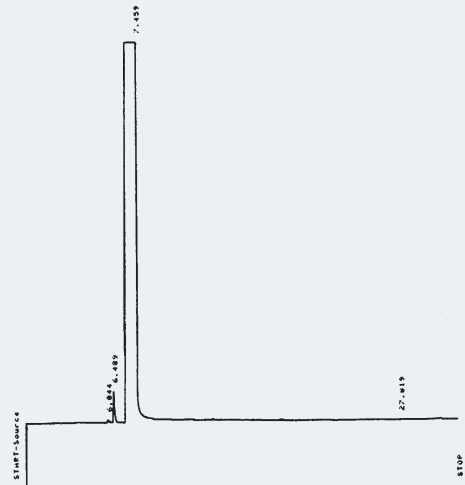
TKG 1191-A

Distillated alcohol

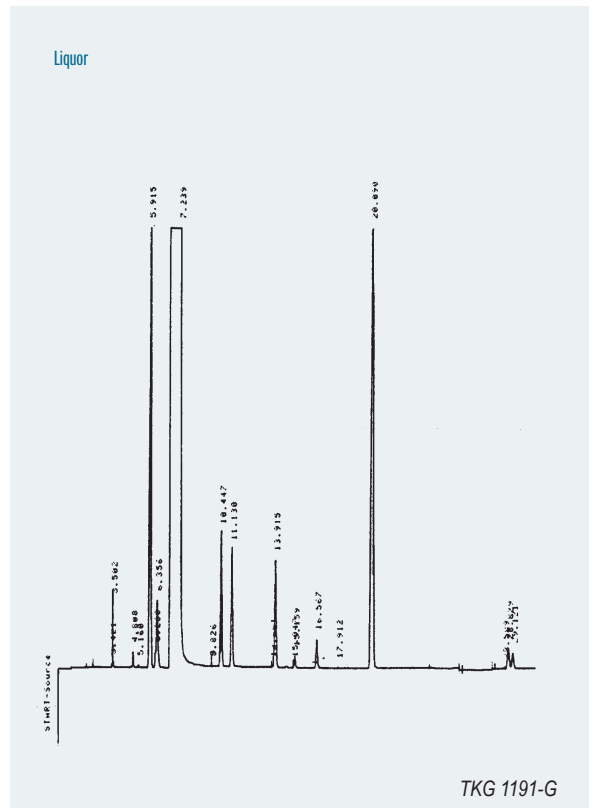
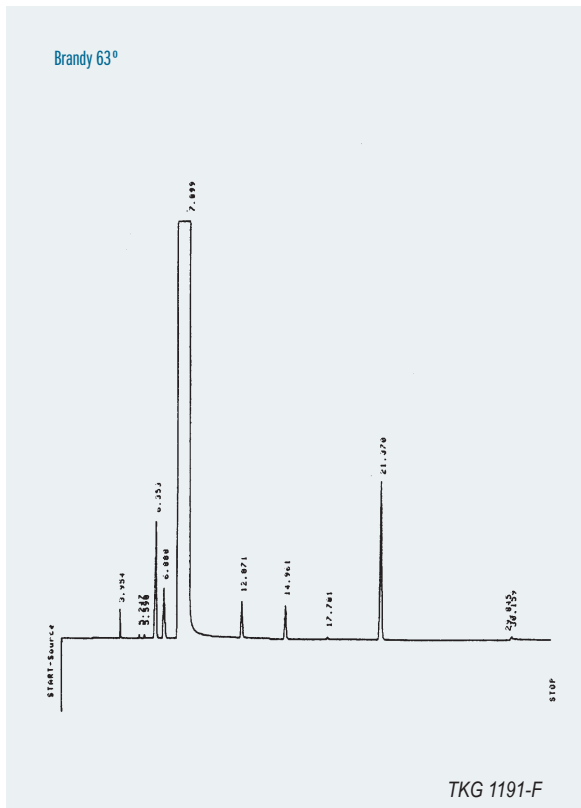
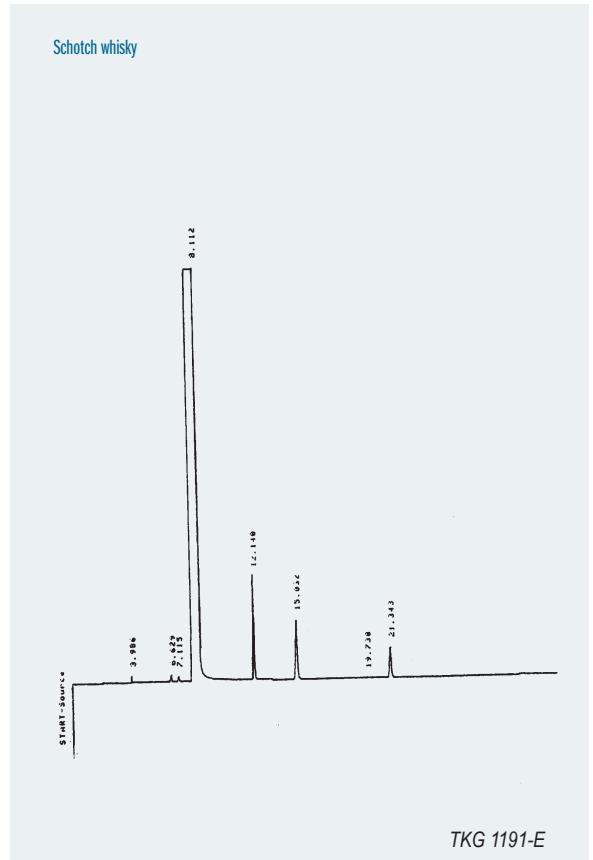
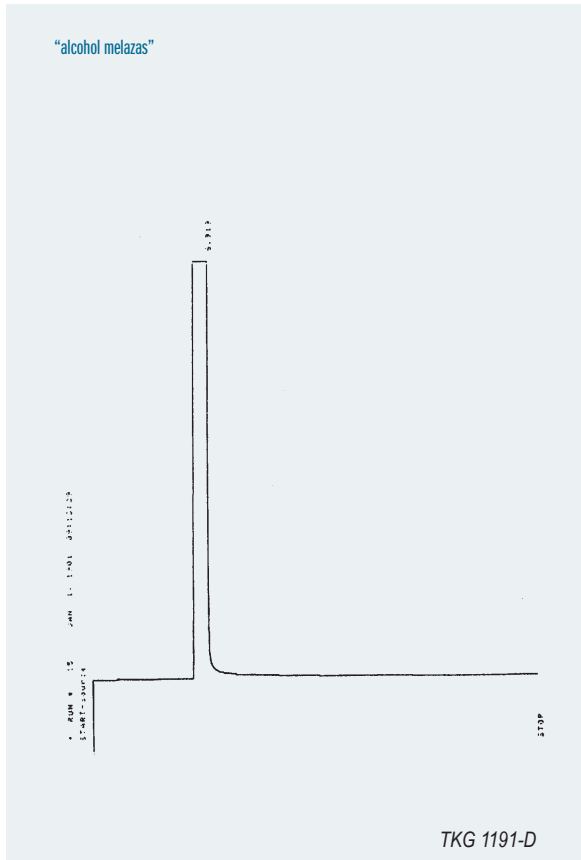


TKG 1191-B

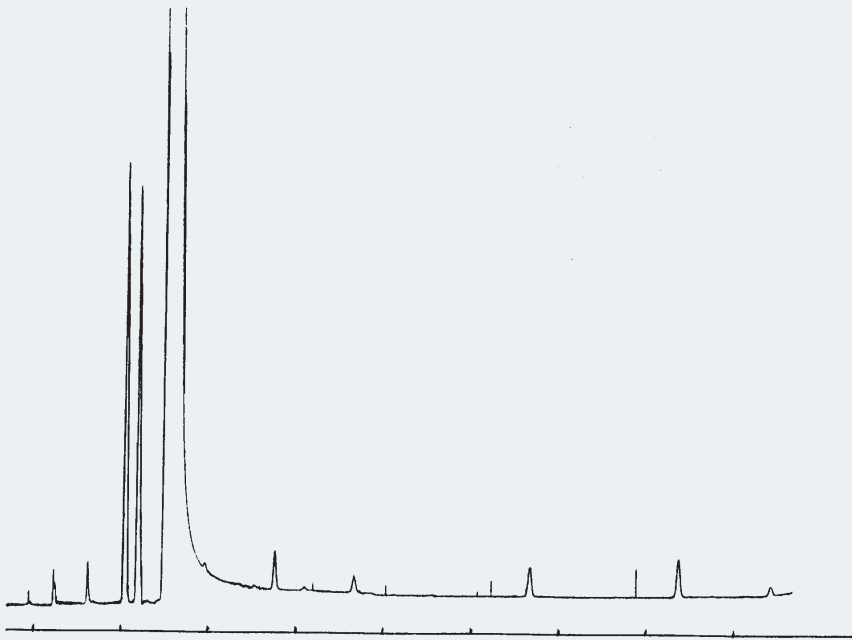
Rectified alcohol



TKG 1191-C

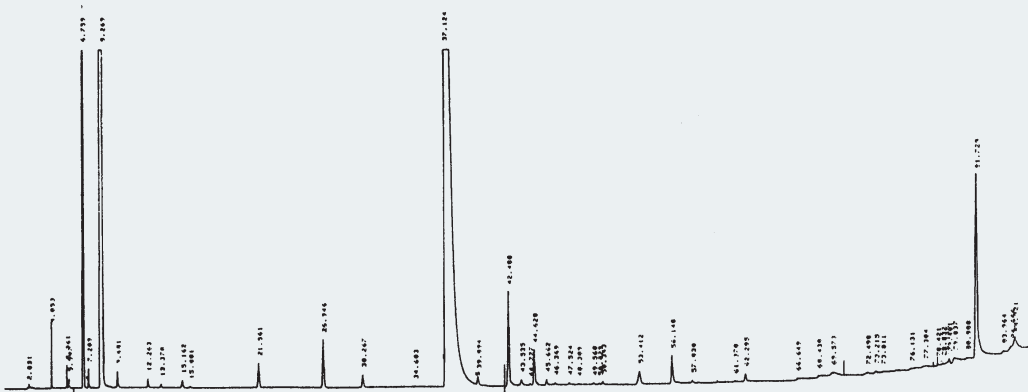


Gin



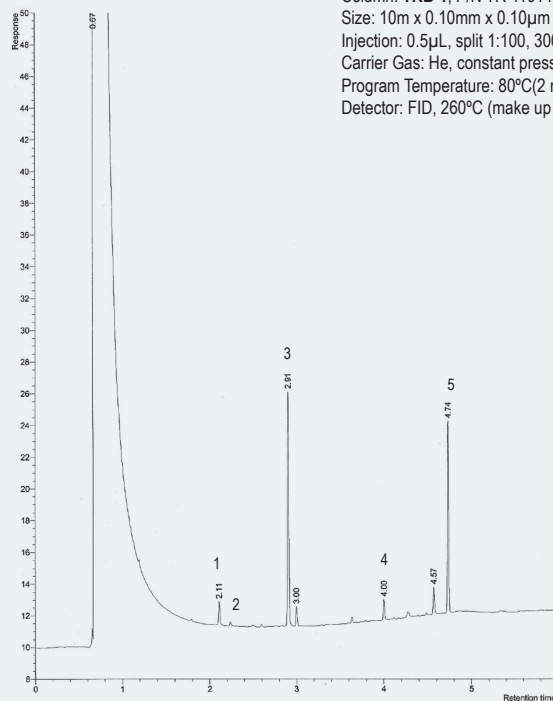
TKG 1191-H

Jerez Vinegar



TKG 1191-I

EXTRACT OF ROSEMARY IN N-PENTANE



Column: **TRB-1**, P/N TR-110141
 Size: 10m x 0.10mm x 0.10µm
 Injection: 0.5µL, split 1:100, 300°C (liner 1mm)
 Carrier Gas: He, constant pressure 35 psi (0.4mL/min)
 Program Temperature: 80°C(2 min) @ 20°C/min to 250°C(5 min)
 Detector: FID, 260°C (make up N2, 60 mL/min)

Peak Name

- 1 α-Pinene
- 2 Camphene
- 3 Eucalyptol
- 4 1,7,7-Tricamphor
- 5 Verbenone

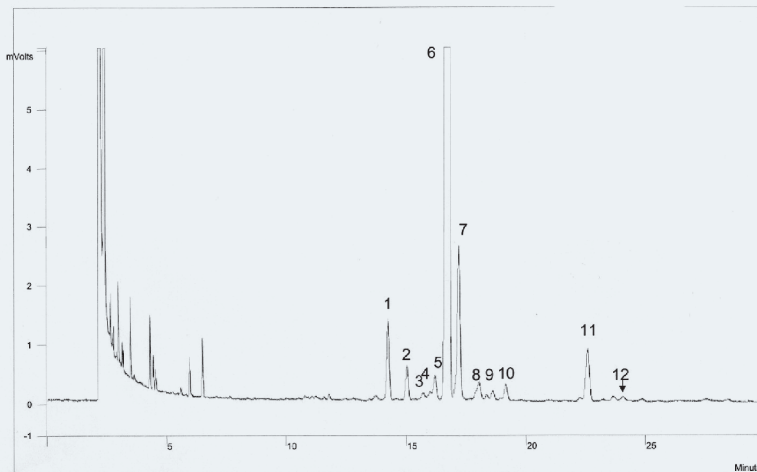
TKG 1196

STEROLS IN OLIVE OIL

Column: **TRB-STEROL**, P/N TR-180738
 Size: 30m x 0.22mm x 0.12µm
 Injection: 1 µL olive oil in diethyl ether (extraction following norm), split 1:30, 250°C
 Carrier Gas: H₂, constant flow 1.6 mL/min
 Oven Temperature: 285°C
 Detector: FID, 320°C

Peak Name

- 1 Campesterol
- 2 Stigmasterol
- 3 Δ⁷-Campesterol
- 4 Δ^{5,23}-Stigmastadienol
- 5 Ceroesterol
- 6 β-Sitosterol
- 7 Δ⁵-Avenasterol
- 8 Δ^{5,24}-Stigmastadienol
- 9 Δ⁷-Stigmasterol
- 10 Δ⁷-Avenasterol
- 11 Eritrodiol
- 12 Uvaol



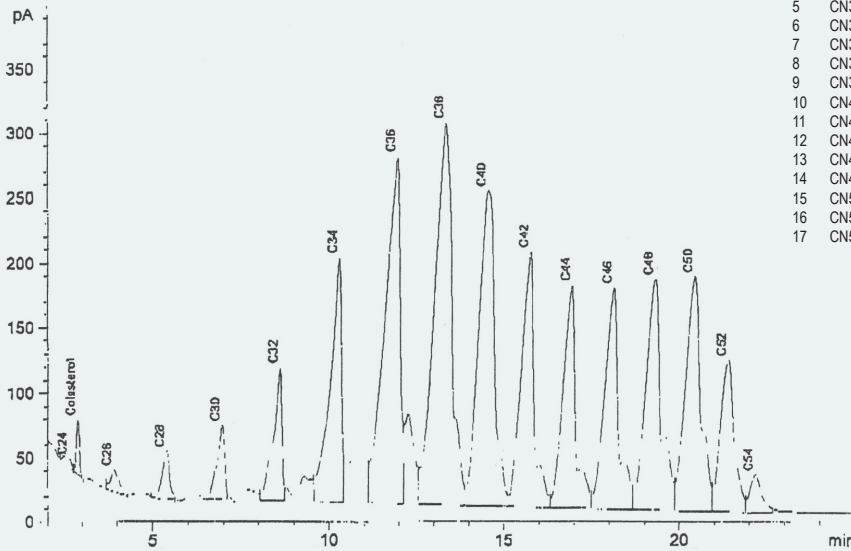
Chromatogram provided by Dr. Manuel León, Instituto de la Grasa (Sevilla).

TKG 1197

TRIGLYCERIDES IN MILKY FAT

Column: **TRB-1ht SimDist**, P/N TR-6113A5 INOX
 Size: 5m x 0.53mm x 0.15µm
 Injection: 1 µL triglycerides of milky fat standard BCR, 370°C, split
 Carrier Gas: He, 15 psi
 Program Temperature: 200°C(1 min) @ 6°C/min to 350°C(5 min)
 Detector: FID, 370°C (N2 make up)

Chromatogram provided by Pablo Ramos Balbona , Remy Picot (Navia, Asturias)



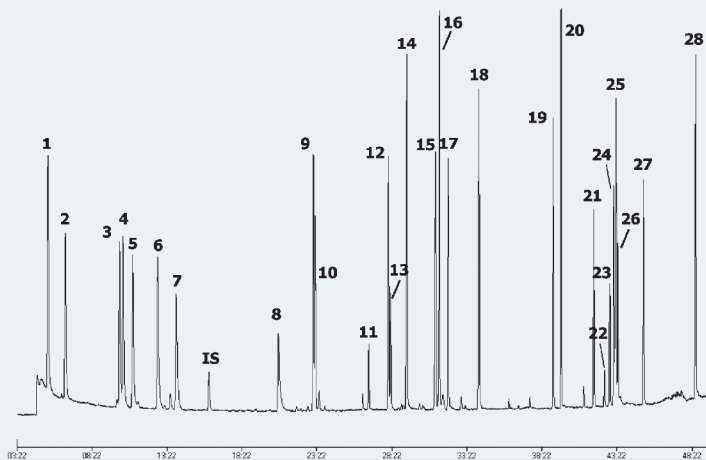
Peak Name
1 CN24
2 Cholesterol
3 CN26
4 CN28
5 CN30
6 CN32
7 CN34
8 CN36
9 CN38
10 CN40
11 CN42
12 CN44
13 CN46
14 CN48
15 CN50
16 CN52
17 CN54

TKG 1230

ALLERGENS IN COSMETICS

Column: **TRB-WAX**, P/N TR-140232
 Size: 30m x 0.25mm x 0.25µm
 Injection: 1 µl standard (25 µg/ml) in dichloromethane, splitless (60s), 250°C
 Carrier Gas: He, 1mL/min
 Program temperature: 32°C (5min) @ 4°C/min to 250°C (5min)
 Detector: MS KONIK-TECH, Mode EI+ (70 eV), rango mas 35-300, Scan time 35ms,
 Source Temperature 120°C, Interface 250°C, Photomultiplier 750V.

Chromatogram provided by Nieves Sarrion from KONIK-TECH, S.A (Barcelona).



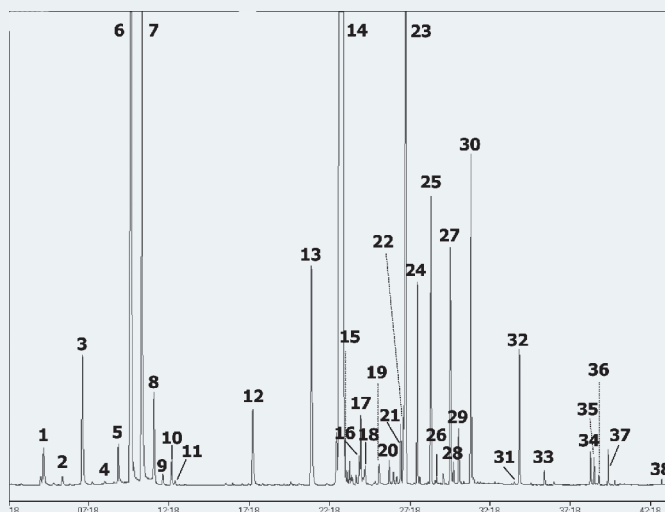
Peak Name
1 α-Pinene
2 Camphene
3 β-Myrcene
4 α-Terpinene
5 Limonene
6 γ-Terpinene
7 Terpinolene
8 β-citronellal
9 Linalool
10 Linalyl acetate
11 Neral
12 s-Carvone
13 Geranial
14 β-Citronellol
15 α-
16 Geraniol
17 Benzyl alcohol
18 Hydroxycitronellal
19 Eugenol
20 Thymol
21 Cinnamyl alcohol
22 Farnesol (1)
23 Farnesol (2)
24 Isoeugenol
25 Hexyl cinnamal
26 Farnesol (3)
27 Coumarine
28 Benzyl benzoate
IS Ethyl heptanoate

TKG 1199

Column: **TRB-WAX**, P/N TR-140232
 Size: 30m x 0.25mm x 0.25µm
 Injection: split 1:30, 250°C (liner SPME, fibra: 2cm 50/30 µm DVB/Carboxen/PDMS)
 Sample: 5 µl soap in 4 mL of water (26.6% NaCl)
 Carrier gas: He, 1mL/min
 Program temperature: 32°C (5min) @ 4°C/min to 250°C (5min)
 Detector: MS KONIK-TECH, Mode EI+ (70 eV), range mass 35-300, Scan time 35ms,
 Source Temperature 120°C, Interface Temperature 250°C, Photomultiplier 750V.

Peak Name

- 1 α-Pinene
- 2 Camphene
- 3 β-Pinene
- 4 3-Carene
- 5 β-Myrcene
- 6 Limonene
- 7 Eucalyptol
- 8 γ-Terpinene
- 9 cis-β-Cymene
- 10 p-Cymene
- 11 Terpinolene
- 12 Methyl octanoate
- 13 (-)-Camphor
- 14 Linalool
- 15 Linalyl acetate
- 16 Methyl decanoate
- 17 4-Terpineol
- 18 Linalyl isobutyrate
- 19 (-)-Menthol
- 20 Citronellol acetate
- 21 Terpineol acetate
- 22 (-)-Borneol
- 23 α-Terpineol
- 24 Nerol acetate
- 25 Geraniol acetate
- 26 Citronellyl
- 27 Nerol
- 28 β-Phenethyl
- 29 Estragole
- 30 Geraniol
- 31 Hydroxycitronellal
- 32 1-Undecanol
- 33 Cinnamal
- 34 Eugenol
- 35 Nerolin
- 36 Thymol
- 37 Carvacrol
- 38 DEP



Chromatogram provided by Nieves Sarrion de KONIK-TECH, S.A

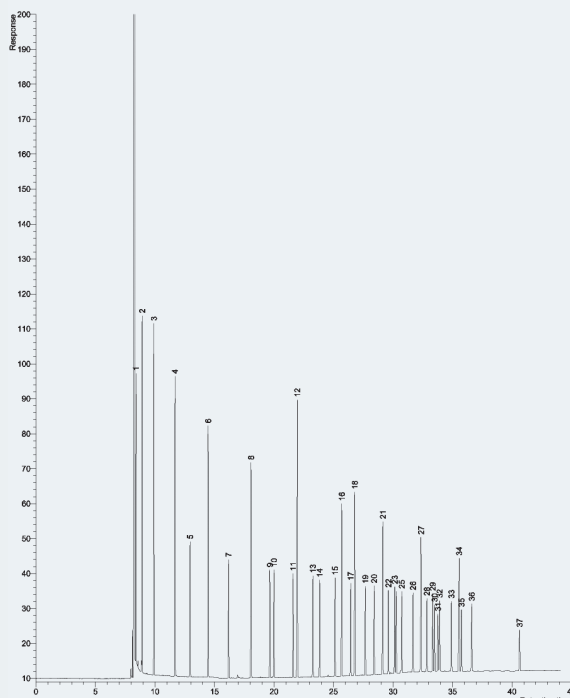
TKG 1228

SEPARATION OF METHYL ESTERS (FAMES)

Column: **TR-CN100**, P/N TR-882192
 Size: 100m x 0.25mm x 0.20µm
 Injection: 1µL Total FAMES en CH₂Cl₂ (30 mg/mL), split 1:100, 260°C
 Carrier gas: He 45 psi, 21 cm/s (140°C)
 Program temperature: 140°C(6min) @ 4°C/min to 240°C(10min)
 Detector: FID, 260°C

Peak Name

- | | |
|---------------------------------|--|
| 1 C4:0 (butyric) | 20 C18:2n6c (linoleic) |
| 2 C6:0 (caproic) | 21 C20:0 (arachidic) |
| 3 C8:0 (caprylic) | 22 C18:3n6 (γ-linolenic) |
| 4 C10:0 (capric) | 23 C20:1n9 (cis-11-eicosenoic) |
| 5 C11:0 (undecanoic) | 24 C18:3n3 (α-linolenic) |
| 6 C12:0 (lauric) | 25 C21:0 (heneicosanoic) |
| 7 C13:0 (tridecanoic) | 26 C20:2 (cis-11,14-eicosadienoic) |
| 8 C14:0 (myristic) | 27 C22:0 (behenic) |
| 9 C14:1 (myristoleic) | 28 C20:3n6 (cis-8,11,14-eicosatrienoic) |
| 10 C15:0 (pentadecanoic) | 29 C22:1n9 (erucic) |
| 11 C15:1 (cis-10-pentadecanoic) | 30 C20:3n3 (cis-11,14,17-eicosatrienoic) |
| 12 C16:0 (palmitic) | 31 C20:4n6 (arachidonic) |
| 13 C16:1 (palmitoleic) | 32 C23:0 (tricosanoic) |
| 14 C17:0 (heptadecanoic) | 33 C22:2 (cis-13,16-docosadienoic) |
| 15 C17:1 (cis-10-heptadecenoic) | 34 C24:0 (lignoceric) |
| 16 C18:0 (stearic) | 35 C20:5n3 (cis-5,8,11,14,17-eicosapentaenoic) |
| 17 C18:1n9t (elaidic) | 36 C24:1 (nervonic) |
| 18 C18:1n9c (oleic) | 37 C22:6n3 (cis-4,7,10,13,16,19-docosahexaenoic) |
| 19 C18:2n6t (linolelaidic) | |



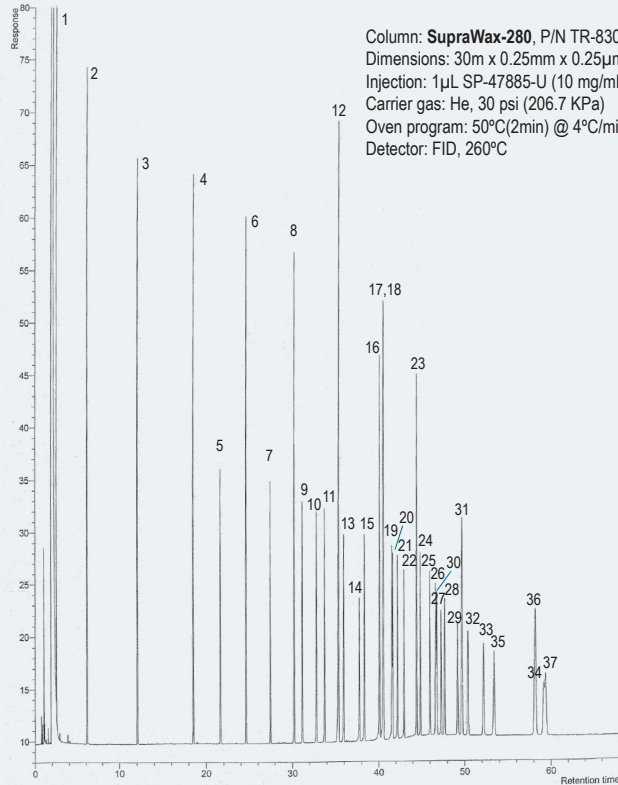
TKG 1228

Peak Name

- 1 C6:0
- 1- C4:0 (butyric)
- 2- C6:0 (caproic)
- 3- C8:0 (caprylic)
- 4- C10:0 (capric)
- 5- C11:0 (undecanoic)
- 6- C12:0 (lauric)
- 7- C13:0 (tridecanoic)
- 8- C14:0 (myristic)
- 9- C14:1 (myristoleic)
- 10- C15:0 (pentadecanoic)
- 11- C15:1 (cis-10-pentadecanoic)
- 12- C16:0 (palmitic)
- 13- C16:1 (palmitoleic)
- 14- C17:0 (heptadecanoic)
- 15- C17:1 (cis-10-heptadecenoic)
- 16- C18:0 (stearic)
- 17- C18:1n9c (oleic) + C18:1n9t (elaidic)
- 18- C18:2n6c (linoleic)
- 19- C18:2n6t (linolelaidic)
- 20- C18:3n6 (γ-linolenic)
- 21- C18:3n3 (α-linolenic)
- 22- C20:0 (arachidic)
- 23- C20:1n9 (cis-11-eicosenoic)
- 24- C20:2 (cis-11,14-eicosadienoic)
- 25- C20:3n6 (cis-8,11,14-eicosatrienoic)
- 26- C21:0 (heneicosanoic)
- 27- C20:3n3 (cis-11,14,17-eicosatrienoic)
- 28- C20:4n6 (arachidonic)
- 29- C20:5n3 (cis-5,8,11,14,17-eicosapentaenoic)
- 30- C22:0 (behenic)
- 31- C22:1n9 (erucic)
- 32- C22:2 (cis-13,16-docosadienoic)
- 33- C23:0 (tricosanoic)
- 34- C24:0 (lignoceric)
- 35- C22:6n3 (cis-4,7,10,13,16,19-docosahexaenoic)
- 36- C24:1n9 (nervonic)

SEPARATION OF FAMES

Column: **SupraWax-280**, P/N TR-830232
 Dimensions: 30m x 0.25mm x 0.25µm
 Injection: 1µL SP-47885-U (10 mg/mL), split 1:100, 260°C
 Carrier gas: He, 30 psi (206.7 KPa)
 Oven program: 50°C(2min) @ 4°C/min to 220°C(15min)
 Detector: FID, 260°C



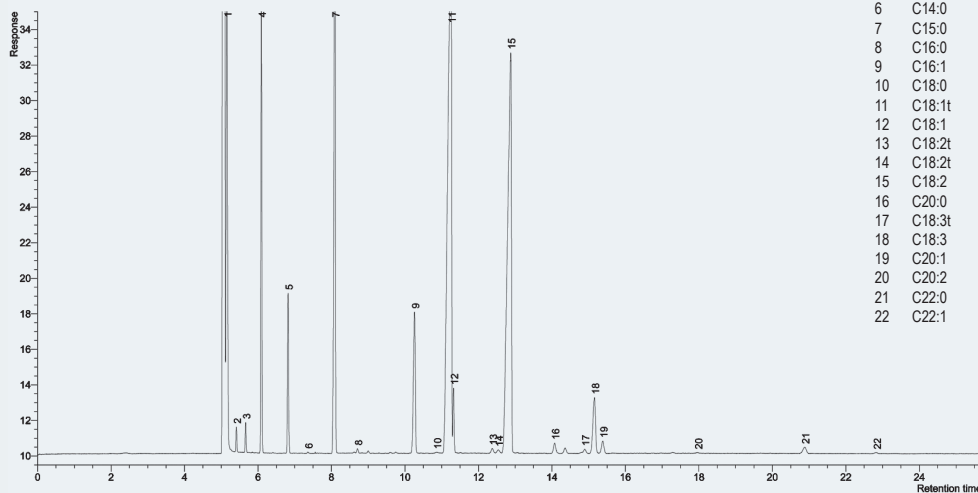
TKG 1237

SEPARATION OF METHYL ESTERS IN SOYA OIL

Column: **TR-CN100**, P/N TR-882162
 Size: 60m x 0.25mm x 0.20µm
 Injection: 1µL Total FAMES en CH₂Cl₂ (30 mg/mL), split 1:100, 280°C
 Carrier gas: He 25 psi
 Program temperature: 185°C
 Detector: FID, 280°C

Peak Name

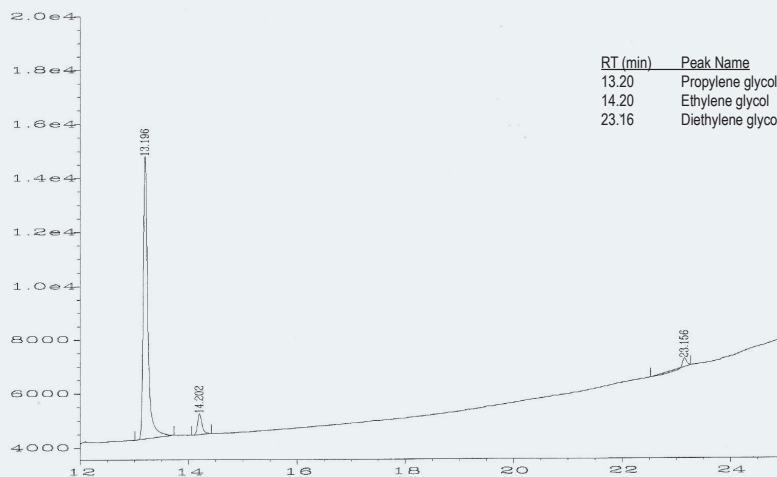
- 1 C6:0
- 2 C8:0
- 3 C10:0
- 4 C12:0
- 6 C14:0
- 7 C15:0
- 8 C16:0
- 9 C16:1
- 10 C18:0
- 11 C18:1t
- 12 C18:1
- 13 C18:2t
- 14 C18:2i
- 15 C18:2
- 16 C20:0
- 17 C18:3t
- 18 C18:3
- 19 C20:1
- 20 C20:2
- 21 C22:0
- 22 C22:1



TKG 1239

GLYCOLS IN WINE

Column: **SupraWAX-280**, P/N TR-831035
 Size: 30m x 0.53mm x 1.0µm
 Injection: 1 µL split 1:50, 220°C
 Carrier gas: He, 5.4 psi
 Program temperature: 100°C (3min) @ 4.5°C/min to 220°C (10min)
 Detector: FID, 260°C



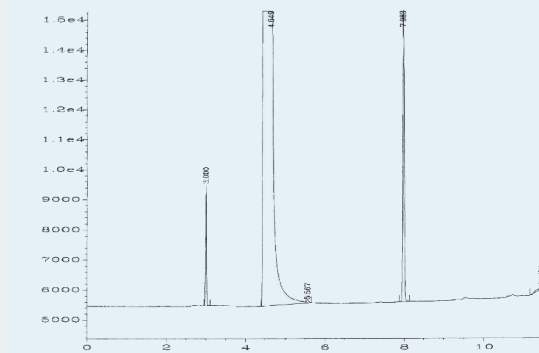
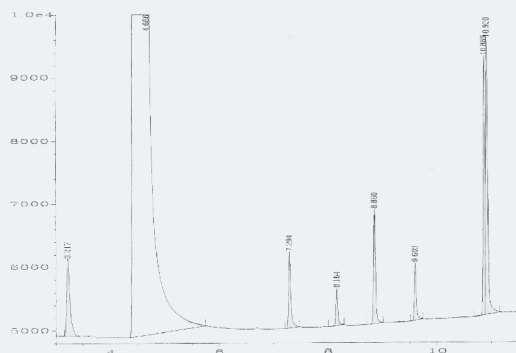
Chromatogram provided by R. Franquet and Joan Garcia from INCAVI (Vilafranca del Penedés, Barcelona)

TKG 1241

METHANOL AND HIGHER ALCOHOLS

Column: **TRB-624**, P/N TR-601432
 Size: 30m x 0.25mm x 1.4µm
 Injection: 1 µL split 1:50, 250°C
 Carrier gas: He, 1mL/min
 Program temperature: 40°C (5min) @ 20°C/min to 200°C (3min)
 Detector: FID, 260°C

RT (min)	Peak Name
3.21	Methanol
4.66	Ethanol
7.29	1-Propanol
8.16	2-Butanol
8.86	Isobutanol
9.60	1-Butanol
10.87	Isoamyl alcohol
10.92	Isoamyl alcohol

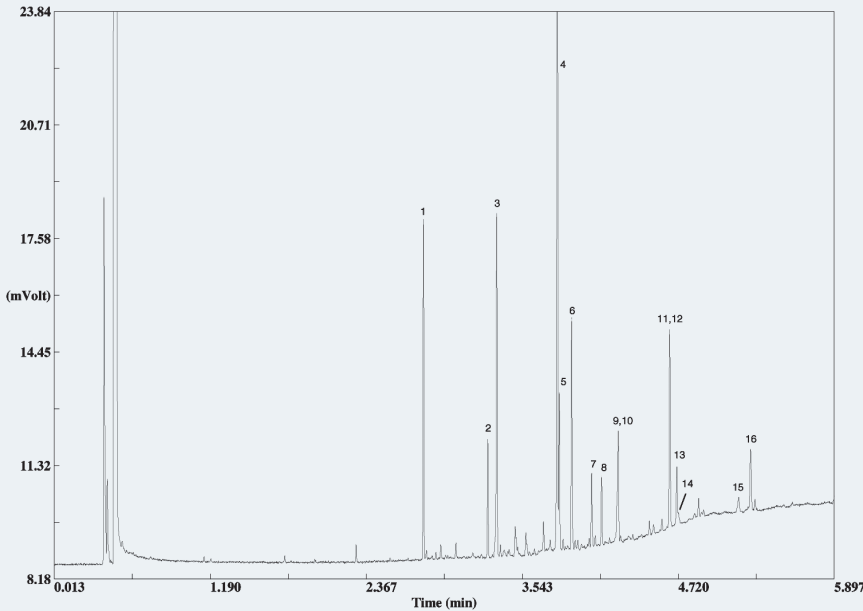


Chromatogram provided by Joan Garcia from INCAVI (Vilafranca del Penedés, Barcelona)

TKG 1242

PUFA I

Column: **SupraWax-280**, 15m x 0.10mm x 0.10µm (P/N: TR-830111)
 Injection: 280°C, split 200:1, precision liner
 Detector: FID, 280°C
 Carrier Gas: H₂, 45 psi (310.05 KPa)
 Oven: 100°C (0.5min) @ 50°C/min to 280°C (2min)
 Sample: 0.2µL PUFA I - Marine Source diluted to 50mg/ml in methylene chloride



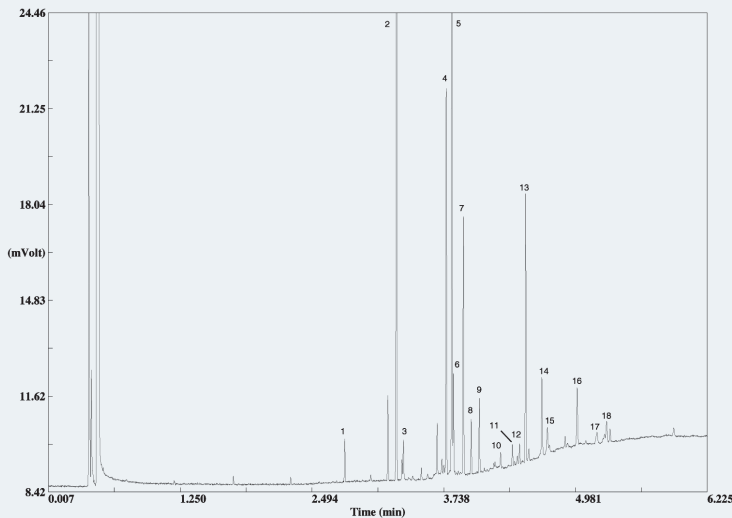
Peak Name

1. C14:0
2. C16:0
3. C16:1ω7
4. C18:1ω9
5. C18:1ω7
6. C18:2ω6
7. C18:3ω3
8. C18:4ω3
9. C20:1ω9
10. C20:1ω11
11. C20:4ω3
12. C20:5ω3
13. C22:1ω11
14. C22:1ω9
15. C22:5ω3
16. C22:6ω3

TKG 1248

PUFA II

Column: **SupraWax-280**, 15m x 0.10mm x 0.10µm (P/N: TR-830111)
 Injection: 280°C, split 200:1, precision liner
 Detector: FID, 280°C
 Carrier Gas: H₂, 45 psi (310.05 KPa)
 Oven: 100°C (0.5min) @ 50°C/min to 280°C (2min)
 Sample: 0.2µL PUFA II - Animal Source diluted to 50mg/ml in methylene chloride



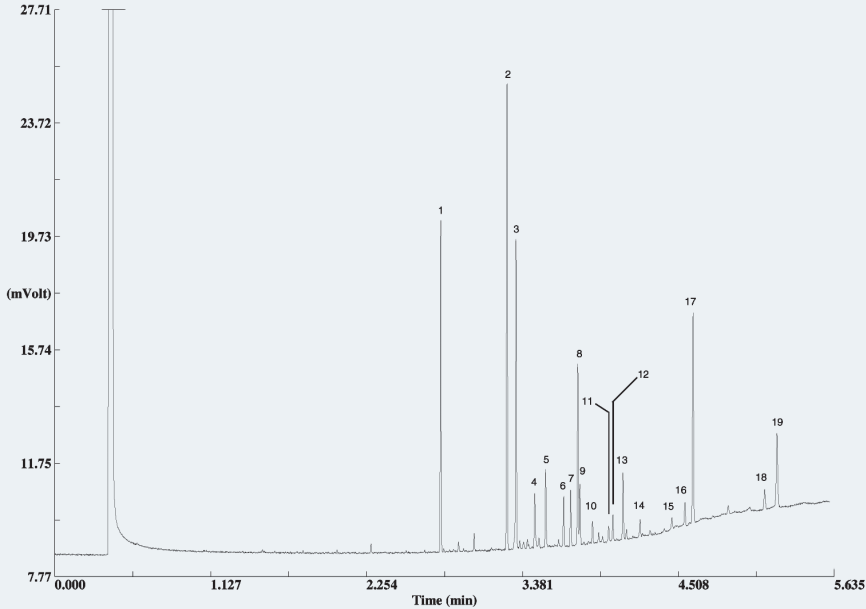
Peak Name

1. C14:0
2. C16:0
3. C16:1ω7
4. C18:0
5. C18:1ω9
6. C18:1ω7
7. C18:2ω6
8. C18:3ω6
9. C18:3ω3
10. C20:1ω9
11. C20:2ω6
12. C20:3ω6
13. C20:4ω6
14. C20:5ω3
15. C22:1ω9
16. C22:4ω6
17. C22:5ω3
18. C24:1

TKG 1249

PUFA III

Column: **SupraWax-280**, 15m x 0.10mm x 0.10µm (P/N: TR-830111)
 Injection: 280°C, split 200:1, precision liner
 Detector: FID, 280°C
 Carrier Gas: H₂, 45 psi
 Oven: 100°C (0.5min) to 280°C @ 50°C/min (2min)
 Sample: 0.1µL PUFA III – Partially Hydrogenate Menhaden Oil diluted to 100mg/ml in hexane

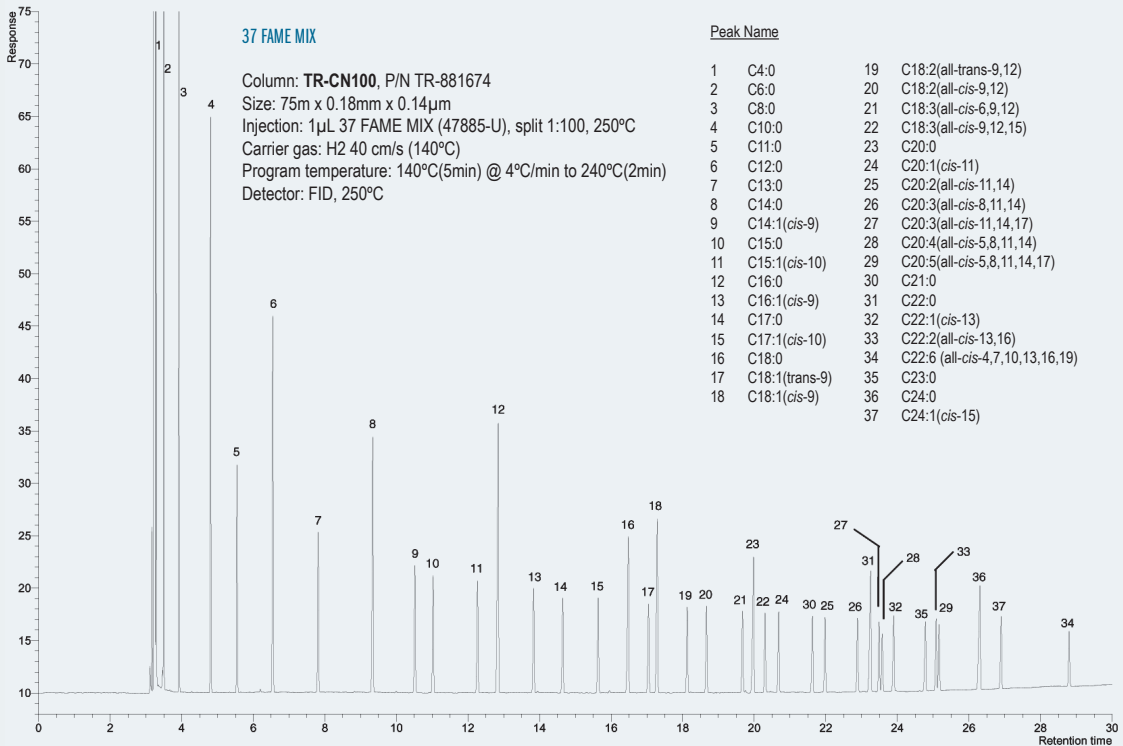


Peak Name
1. C14:0
2. C16:0
3. C16:1ω7
4. C16:2ω4
5. C16:3ω4
6. C16:4ω1
7. C18:0
8. C18:1ω9
9. C18:1ω7
10. C18:2ω6
11. C18:3ω4
12. C18:3ω3
13. C18:4ω3
14. C20:1ω9
15. C20:4ω6
16. C20:4ω3
17. C20:5ω3
18. C22:5ω3
19. C22:6ω3

TKG 1253

37 FAME MIX

Column: **TR-CN100**, P/N TR-881674
 Size: 75m x 0.18mm x 0.14µm
 Injection: 1µL 37 FAME MIX (47885-U), split 1:100, 250°C
 Carrier gas: H₂ 40 cm/s (140°C)
 Program temperature: 140°C(5min) @ 4°C/min to 240°C(2min)
 Detector: FID, 250°C



Peak Name
1 C4:0
2 C6:0
3 C8:0
4 C10:0
5 C11:0
6 C12:0
7 C13:0
8 C14:0
9 C14:1(cis-9)
10 C15:0
11 C15:1(cis-10)
12 C16:0
13 C16:1(cis-9)
14 C17:0
15 C17:1(cis-10)
16 C18:0
17 C18:1(trans-9)
18 C18:1(cis-9)
19 C18:2(all-trans-9,12)
20 C18:2(all-cis-9,12)
21 C18:3(all-cis-6,9,12)
22 C18:3(all-cis-9,12,15)
23 C20:0
24 C20:1(cis-11)
25 C20:2(all-cis-11,14)
26 C20:3(all-cis-8,11,14)
27 C20:3(all-cis-11,14,17)
28 C20:4(all-cis-5,8,11,14)
29 C20:5(all-cis-5,8,11,14,17)
30 C21:0
31 C22:0
32 C22:1(cis-13)
33 C22:2(all-cis-13,16)
34 C22:6 (all-cis-4,7,10,13,16,19)
35 C23:0
36 C24:0
37 C24:1(cis-15)

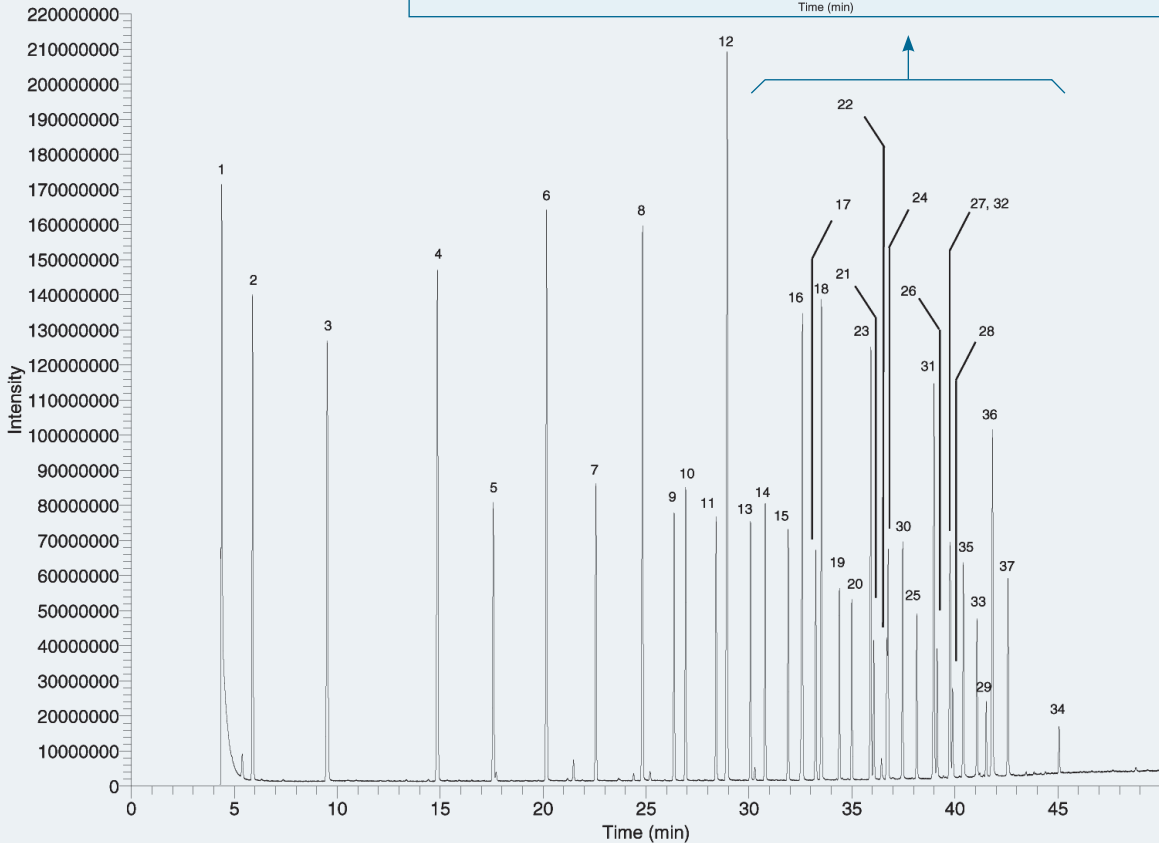
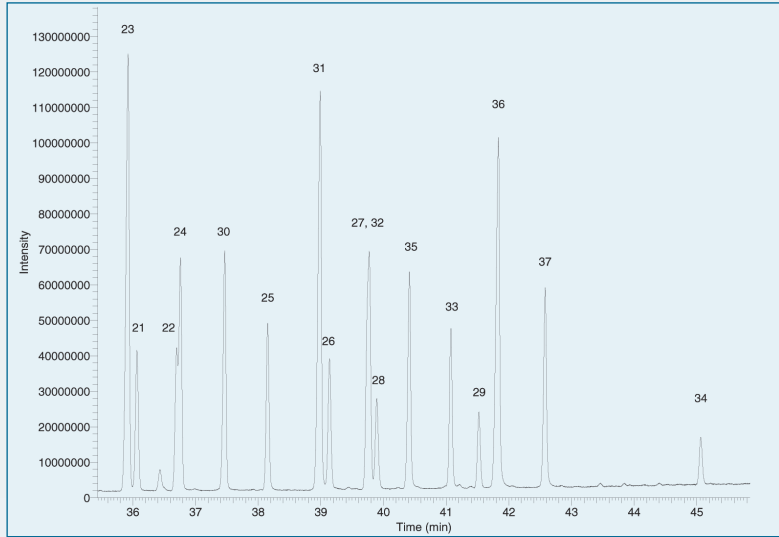
TKG 1250

37 FAME MIX- MS DETECTOR

Column: **TR-CN100**, 60m x 0.25mm x 0.20µm (P/N: TR-882162)
 Injection: 280°C, split 50:1
 Oven: 90°C (7min) to 240°C @ 4°C/min (3min)
 Carrier gas: Helium, constant pressure @ 24psi
 Detector: MS
 Transfer line temp.: 230°C
 Ionization mode: EI
 Scan range: 40-450amu
 Sample: 0.5µL Food Industry FAME Mix 30mg/ml in methylene chloride

Peak Name

1	C4:0	19	C18:2(all-trans-9,12)
2	C6:0	20	C18:2(all-cis-9,12)
3	C8:0	21	C18:3(all-cis-6,9,12)
4	C10:0	22	C18:3(all-cis-9,12,15)
5	C11:0	23	C20:0
6	C12:0	24	C20:1(cis-11)
7	C13:0	25	C20:2(all-cis-11,14)
8	C14:0	26	C20:3(all-cis-8,11,14)
9	C14:1(cis-9)	27	C20:3(all-cis-11,14,17)
10	C15:0	28	C20:4(all-cis-5,8,11,14)
11	C15:1(cis-10)	29	C20:5(all-cis-5,8,11,14,17)
12	C16:0	30	C21:0
13	C16:1(cis-9)	31	C22:0
14	C17:0	32	C22:1(cis-13)
15	C17:1(cis-10)	33	C22:2(all-cis-13,16)
16	C18:0	34	C22:6(all-cis-4,7,10,13,16,19)
17	C18:1(trans-9)	35	C23:0
18	C18:1(cis-9)	36	C24:0
		37	C24:1(cis-15)



TKG 1251