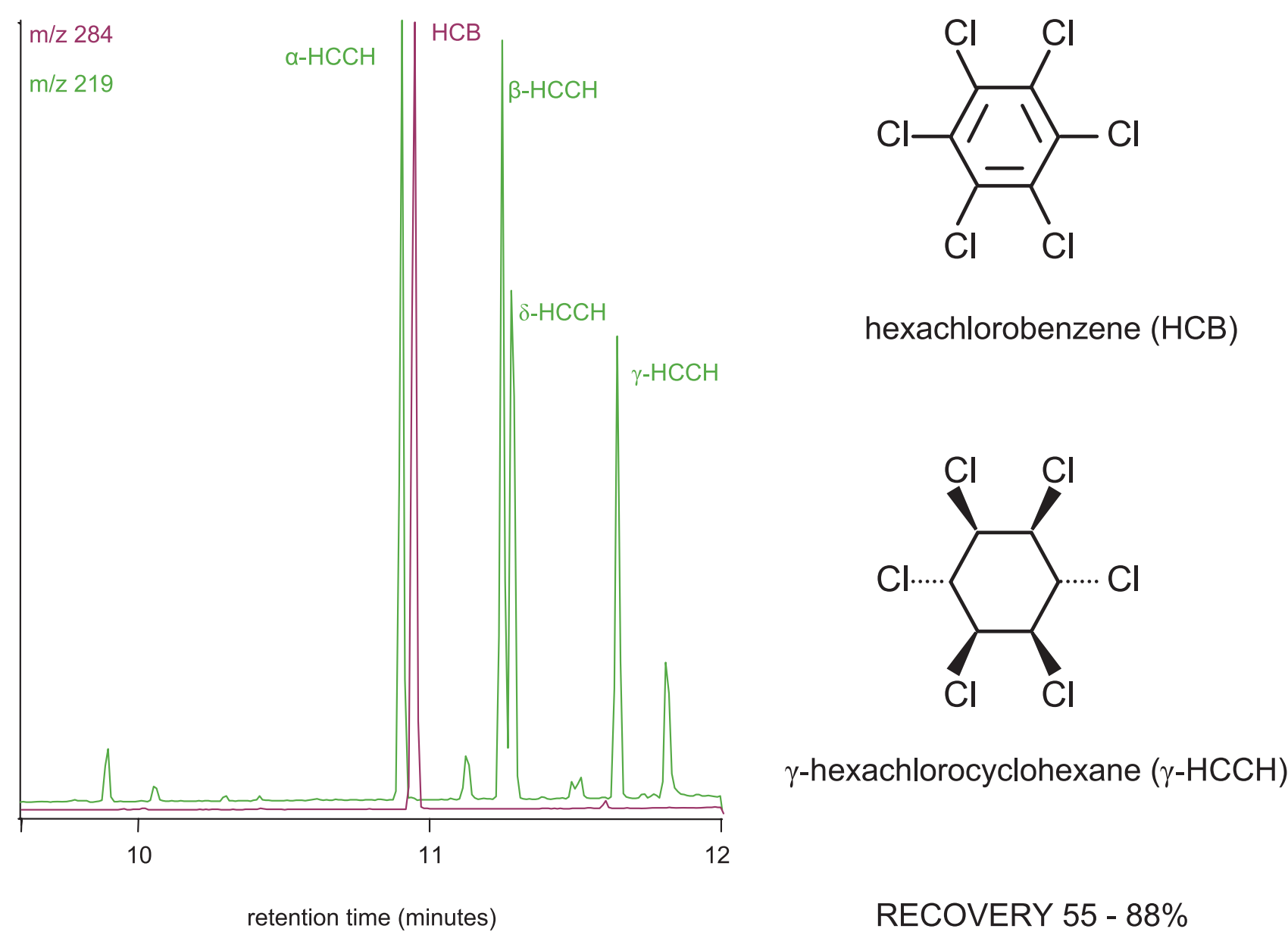
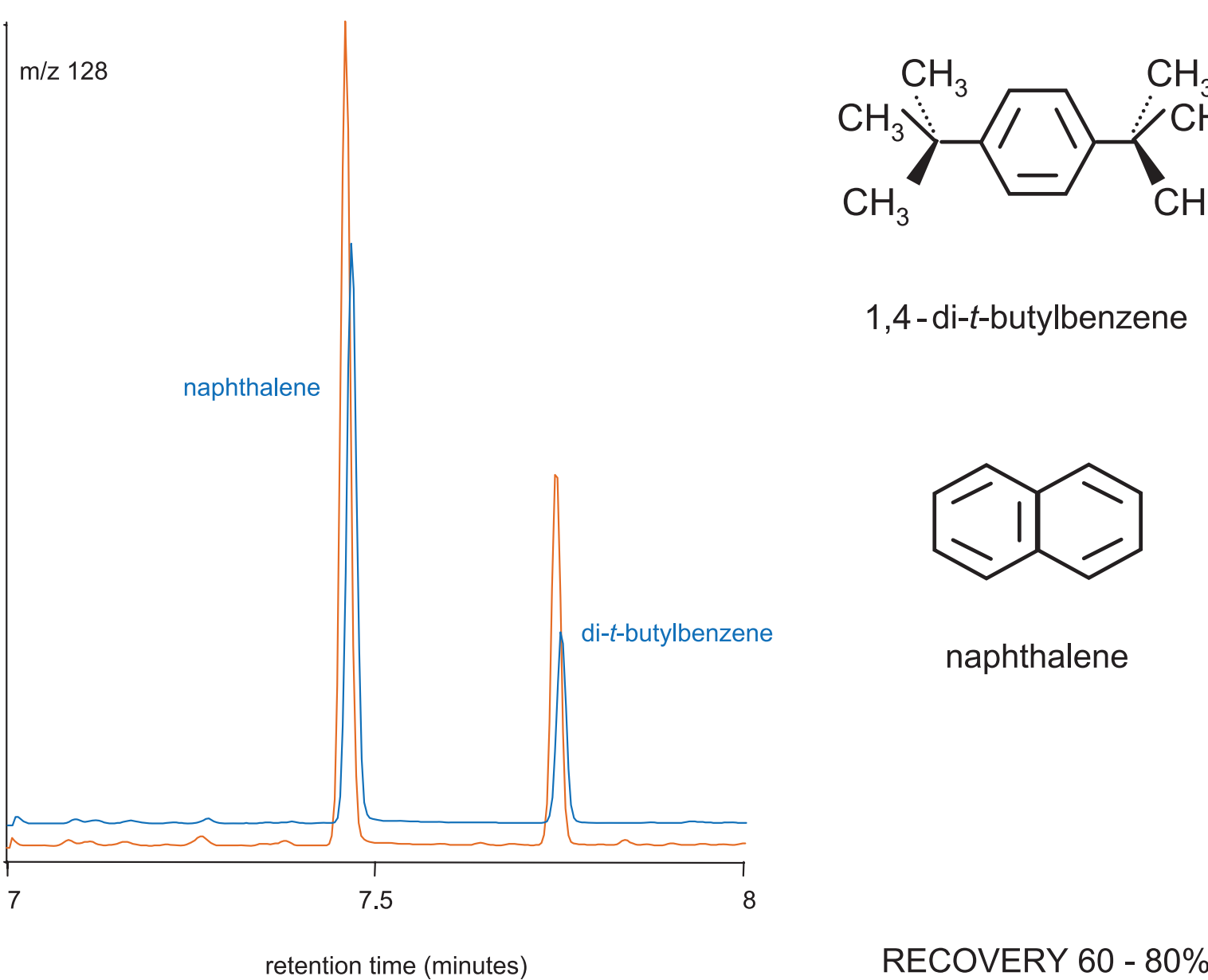


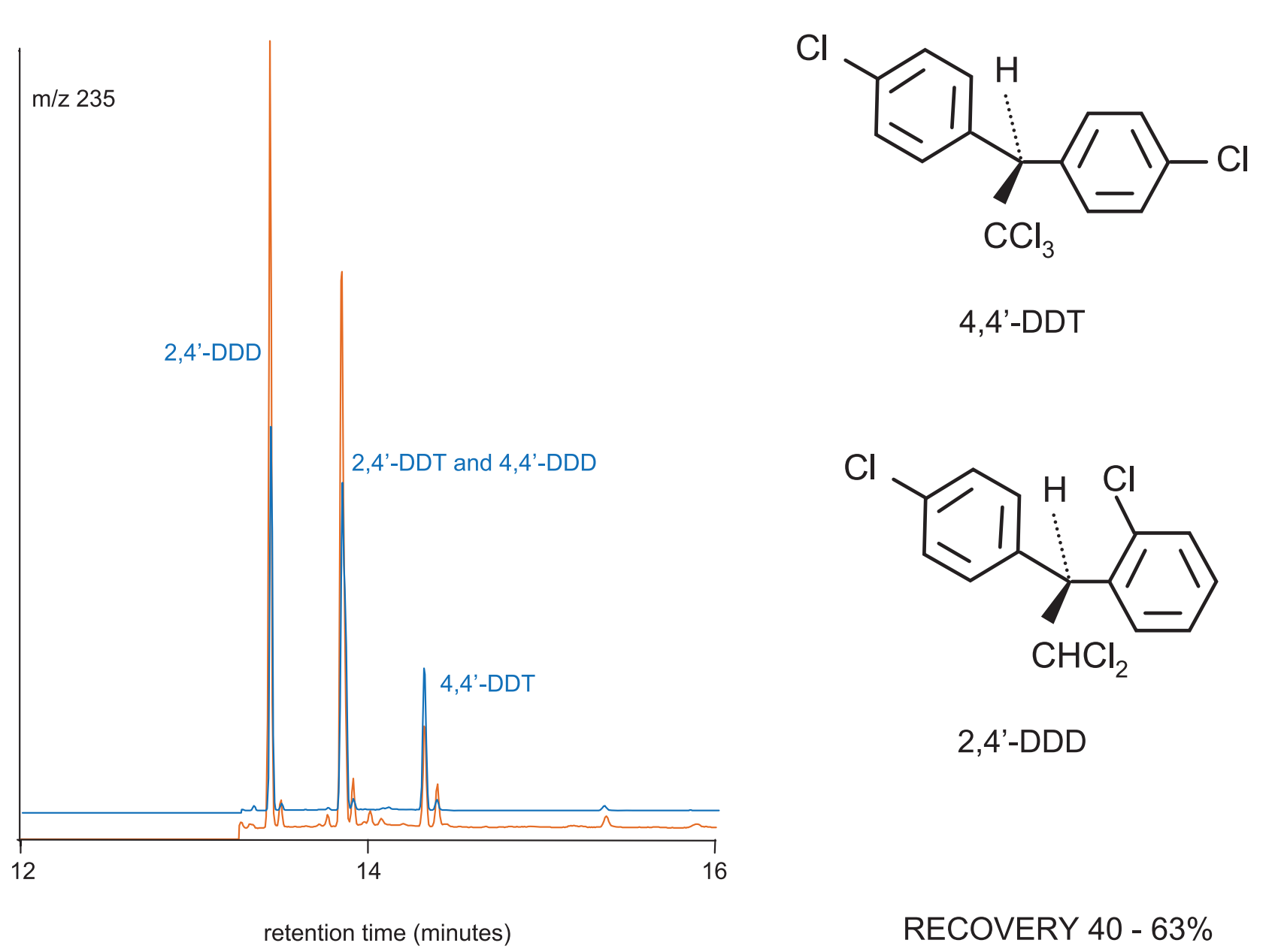
HCCH and HCB 5 ppb



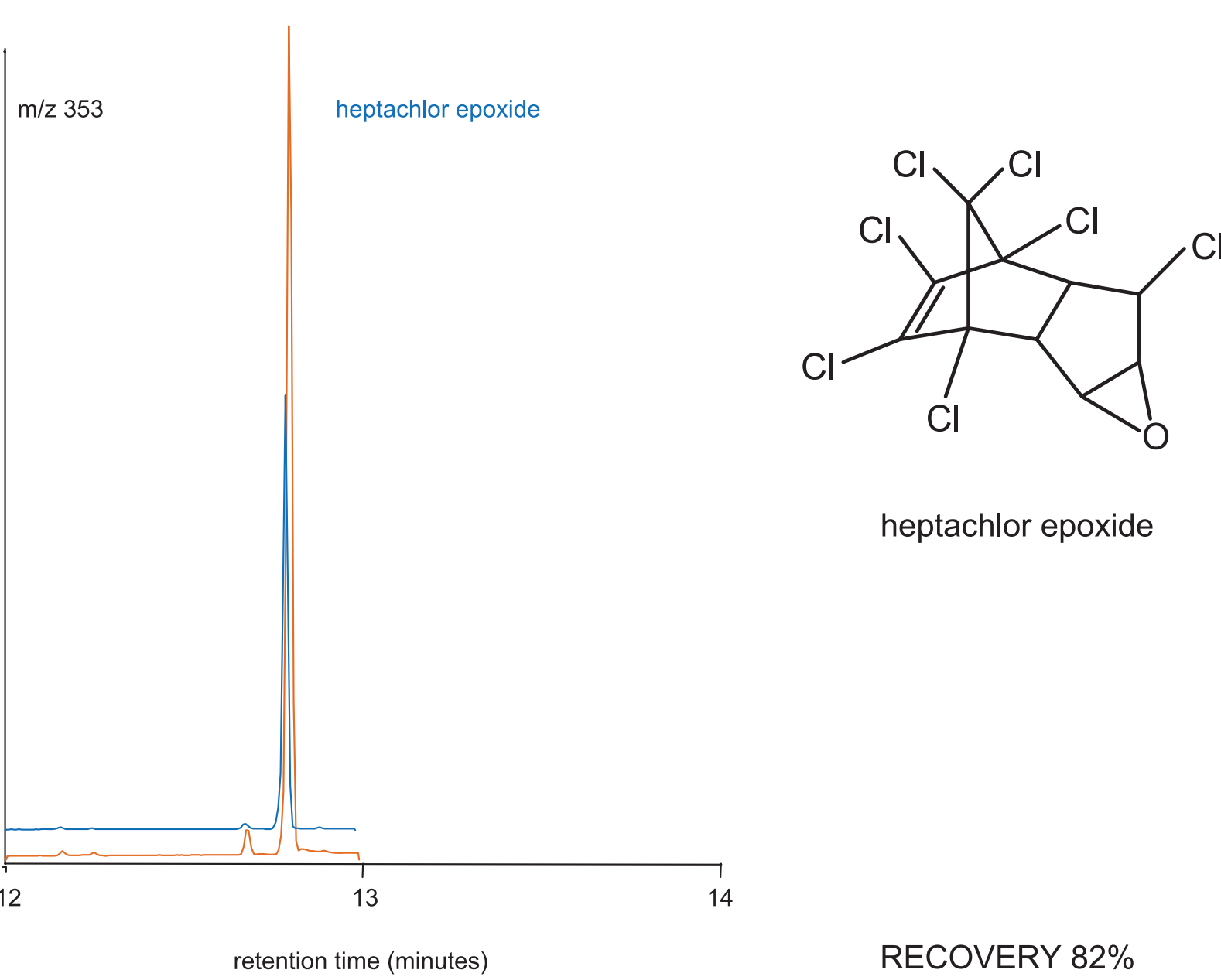
NAPHTHALENE 5 ppb



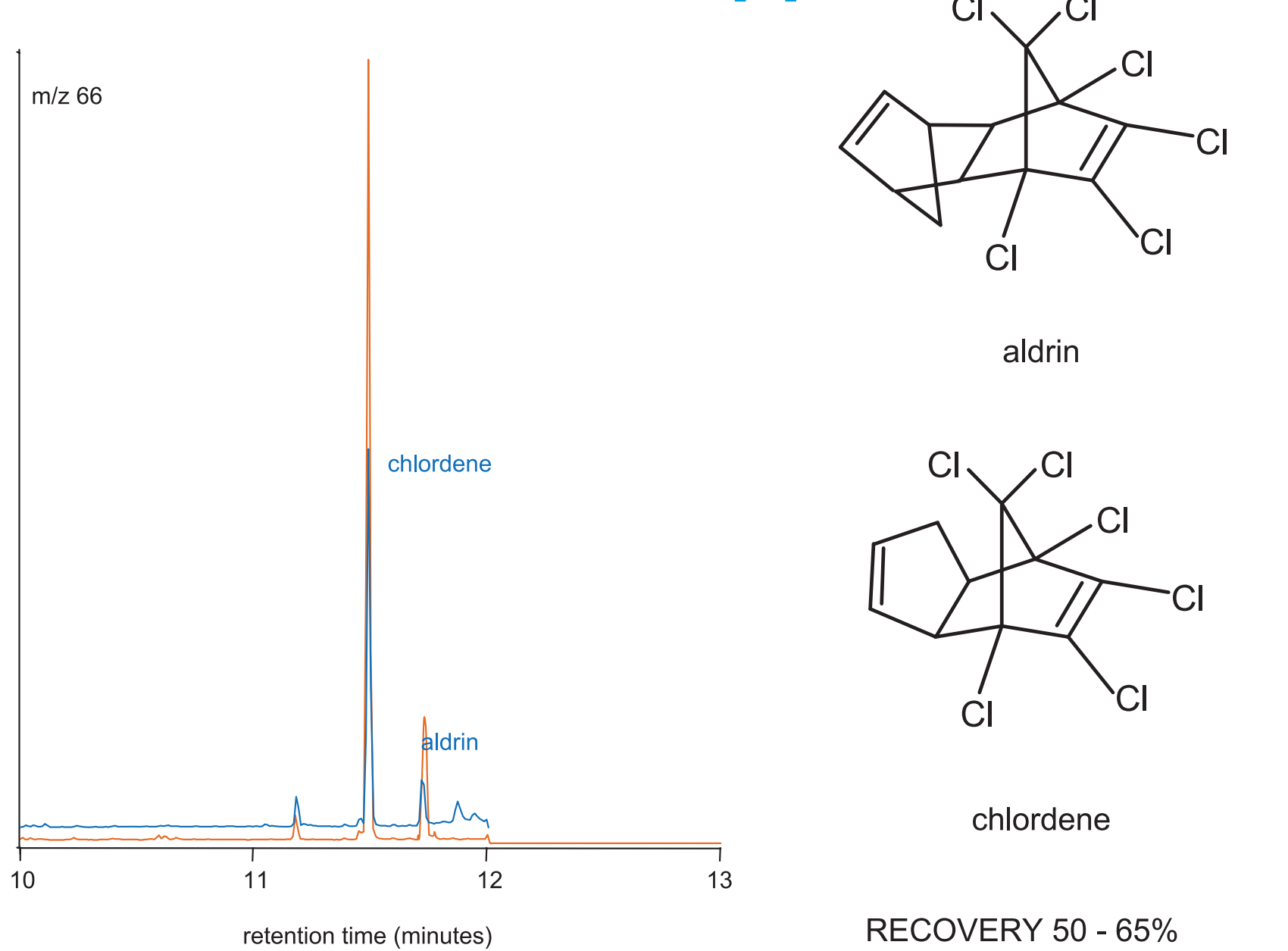
DDT and related compounds 1 ppb



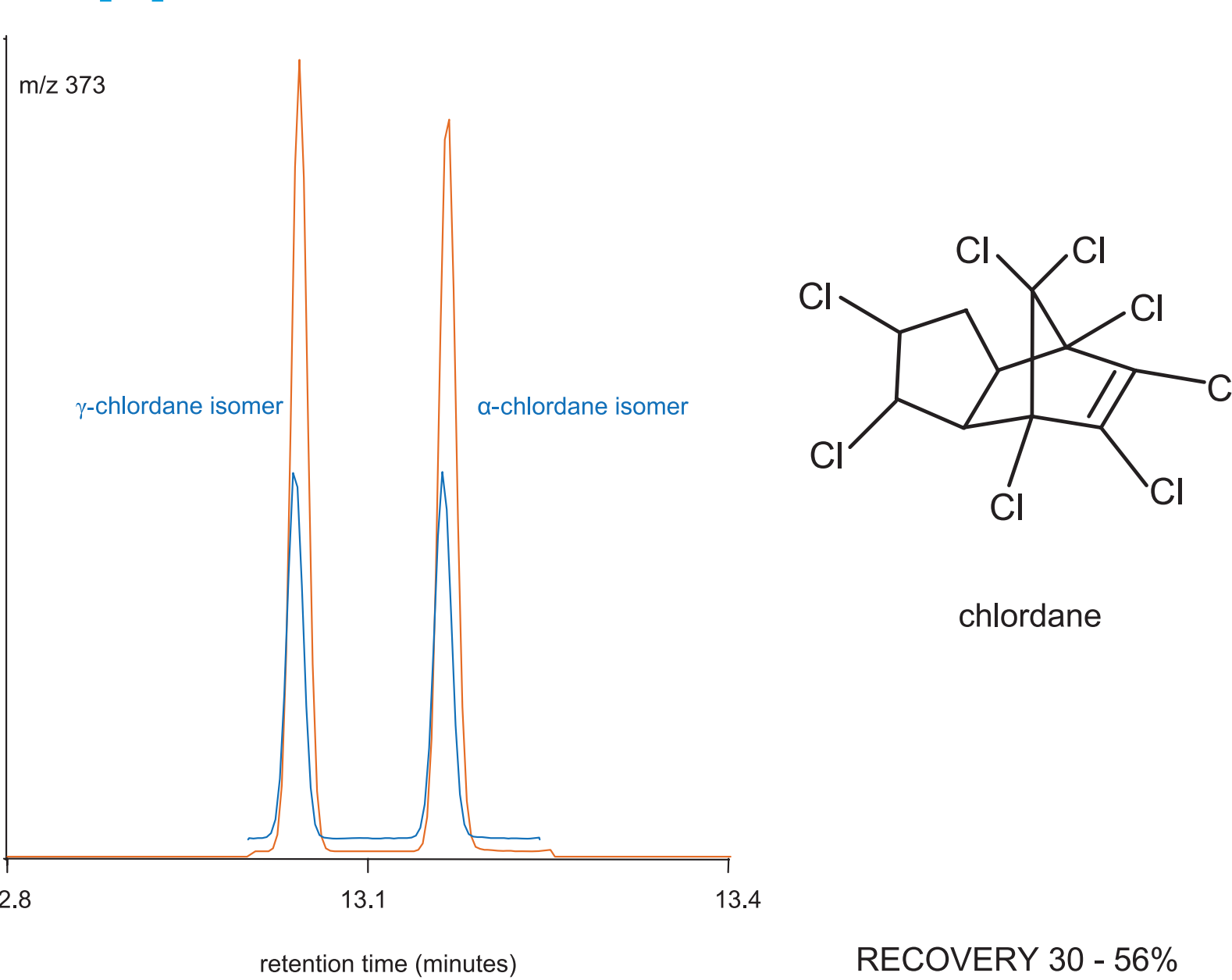
HEPTACHLOR EPOXIDE 10 ppb



CHLORDENE and ALDRIN 1-10 ppb



CHLORDANE 5 ppb



EXPERIMENTAL CONDITIONS

- MEPS extraction was performed by diluting 100 μ L of a 10-100 ppb standard with 900 μ L of water.
- The whole sample was extracted on a C18 MEPS cartridge conditioned with methanol and water.
- The sorbent was dried and eluted sequentially with 10 μ L of isopropanol and 10 μ L of dichloromethane into the same vial.
- A 1 μ L portion of the eluate was separated on a BPX5 30 m x 0.25 mm i.d. with a 0.25 μ m film thickness (SGE Analytical Science) in a 6890 GC-5973N MSD (Agilent Technologies) fitted with an ETP 14642 electron multiplier.
- Injection was splitless at a temperature of 250 $^{\circ}$ C.
- The carrier gas was helium with a nominal flowrate of 1.3 mL/min in constant flowrate mode and a nominal inlet pressure of 10.8 psi.

- The oven temperature was programmed from 50 $^{\circ}$ C (held for 2 minutes) to 270 $^{\circ}$ C (held for 15 minutes) at 20 $^{\circ}$ C/min.
- The transfer line was at 280 $^{\circ}$ C.
- MS experiments were in selected ion monitoring mode with an ion dwell time of 200 msec.
- For online use, the 20 μ L combined isopropanol-dichloromethane eluate should be injected using a large volume injector.
- The MEPS cartridge was recycled in excess of 20 times by washing with dichloromethane (2 x 20 μ L) and methanol (2 x 20 μ L).
- Recovery may be improved by modifying the sample with surface active agents and increasing the ionic strength of the aqueous sample.
- Pure standards shown in orange. Extracted samples shown in blue.

For more chromatographic information visit www.sge.com or contact your SGE technical specialist.



AUSTRALIA & PACIFIC REGION SGE Analytical Science Pty Ltd Toll Free: 1800 800 167 Tel: +61 (0) 3 9837 4200 Fax: +61 (0) 3 9874 5672 Email: support@sge.com	CHINA SGE Shanghai Representative Office Tel: +86 21 6407 9382 Fax: +86 21 6407 9386 Email: china@sge.com	FRANCE SGE Europe Ltd Tel: +33 1 69 29 80 90 Fax: +33 1 69 29 09 25 Email: europe@sge.com	GERMANY SGE GmbH Tel: +49 (0) 6155 / 60746 0 Fax: +49 (0) 6155 / 60746 50 Email: europe@sge.com	INDIA SGE Laboratory Accessories Pvt Ltd Tel: +91 22 24715896 Fax: +91 22 24716592 Email: sgeindia@vsnl.com	JAPAN SGE Japan Inc Tel: +81 45 222 2885 Fax: +81 45 222 2887 Email: japan@sge.com	MIDDLE EAST SGE Gulf Tel: 00 971 6 557 3341 Fax: 00 971 6 557 3541 Email: gulfsupport@sge.com	UNITED KINGDOM SGE Europe Ltd Tel: +44 1908 568 844 Fax: +44 1908 566 790 Email: europe@sge.com	UNITED STATES OF AMERICA SGE Incorporated Toll Free: (800) 945 6154 Tel: +1 512 837 7190 Fax: +1 512 836 9159 Email: usa@sge.com
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