SCION INSTRUMENTS

SCION Thermal Desorber for GC and GC-MS

- Automated, rubust and reliable solution for thermal desorption anlysis

Introducing the partner of your GC/ GC-MS system for environmental and material analysis

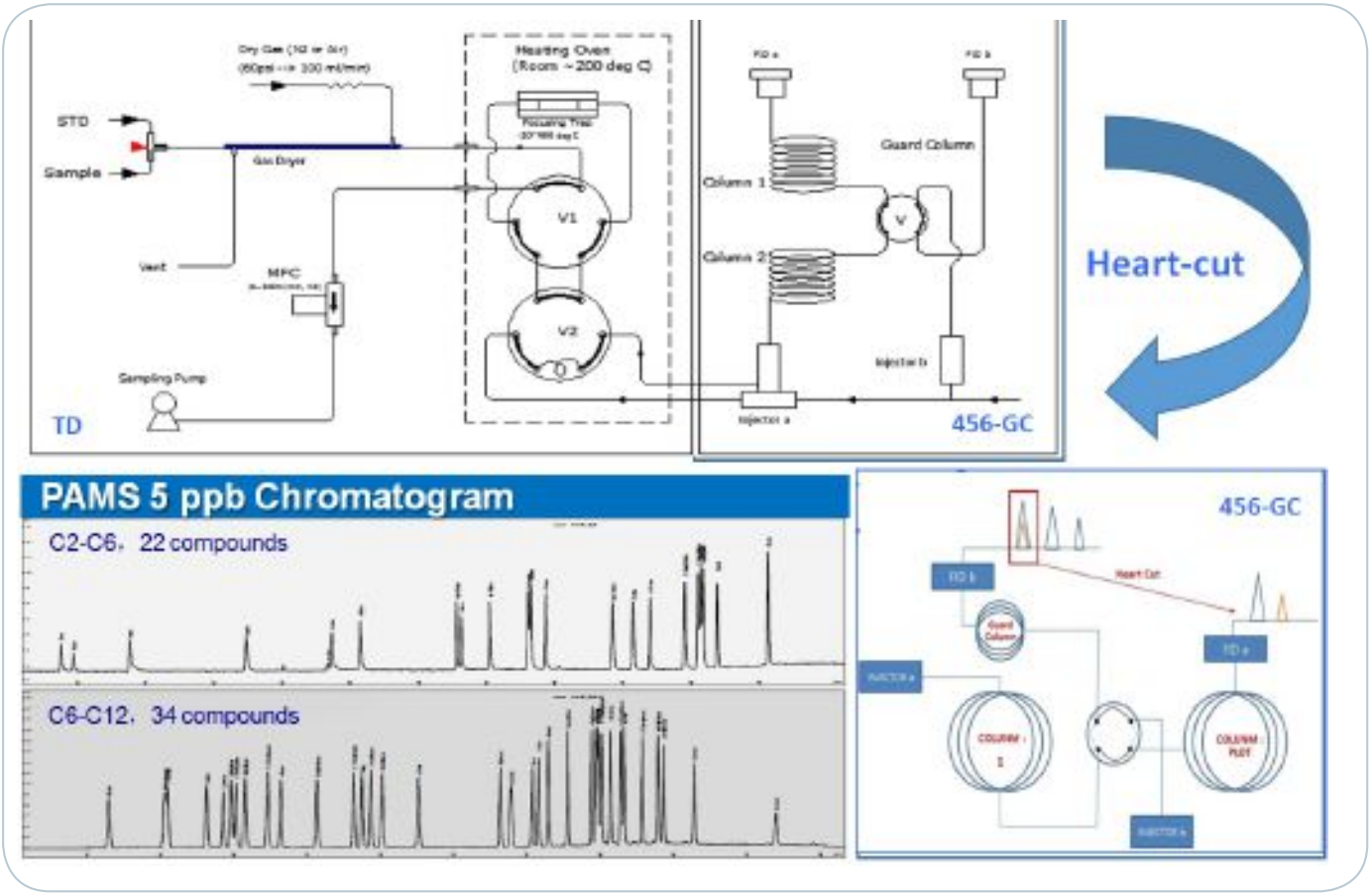
SCION Thermal Desorber coupled with SCION GC/ GC-MS is an ideal platform to measure trace-level volatile and semi-volatile organic compounds (VOCs and SVOCs) in various samples: air, flavors, materials, fragrance, etc.
With a full line of GC and GC-MS instrumentation, sample introduction devices, custom solutions and complete selection of consumables and accessories, SCION is true single-source provider of fully integrated, world-class GC solutions.

Representative application area of Scion TD-GC/GC-MS system

- TO-1, TO-2, TO-17
- Ambient and Urban Air Monitoring
- Industrial Emissions Monitoring
- Landfill gas analysis
- Odor Analysis
- Photochemical Assessment Monitoring Stations (PAMS)

Application: EPA Ozone Precursor 56 compounds

Flow diagram of SCION TD-GC



Peak Identification

1. Ethane
2. Ethylene
3. Propane
4. Propylene
5. Acetylene
6. Isobutane
7. n-Butane
8. trans-2-Butene
9. 1-Butene
10. cis-2-Butene
11. Cyclopentane
12. Isopentane
13. n-Pentane
14. trans-2-Pentene
15. 1-Pentene
16. cis-2-Pentene
17. 2,2-Dimethylbutane
18. 2,3-Dimethylbutane
19. 2-Methylpentane
20. 3-Methylpentane
21. Isoprene
22. 1-Hexene
23. n-Hexane
24. Methylcyclopentane
25. 2,4-Dimethylpentane
26. Benzene
27. Cyclohexane
28. 2-Methylhexane
29. 2,3-Dimethylpentane
30. 3-Methylhexane
31. 2,2,4-Trimethylpentane
32. n-Heptane
33. Methylcyclohexane
34. 2,3,4-Trimethylpentane
35. Toluene
36. 2-Methylheptane
37. 3-Methylheptane
38. n-Octane
39. Ethylbenzene
40. m/p-Xylene
41. Styrene
42. o-Xylene
43. n-Nonane
44. Isopropylbenzene
45. n-Propylbenzene
46. m-Etyltoluene
47. p-Ethyltoluene
48. 1,3,5-Trimethylbenzene
49. o-Ethyltoluene
50. 1,2,4-Trimethylbenzene
51. n-Decane
52. 1,2,3-Trimethylbenzene
53. m-Diethylbenzene
54. p-Diethylbenzene
55. n-Undecane
56. n-Dodecane

Consumables Highlight—SCION Columns

SCION offers the highest quality, most reproducible GC capillary, PLOT and packed columns, with the most demanding quality assurance specifications in the industry.
For GC-MS applications and trace-level analysis, SCION also provide the MS range capillary columns with highly inert and lowest bleed that offer low backgrand, high S/N values and minimal peak tailing.

Accessory and Consumables for SCION TD-GC/GCSQ Analysis

Tube conditioner

Tube condition is an ideal device to clean and re-condition the sorbent tube for the use of thermal desorption analysis Baseline is guaranteed after the re-conditioning and ensuring no carry-over

Available Various types of Sorbent Tubes

- Tenax-TA
- Tenax-GR
- Carbosieve S-III
- Hayesep porous polymers
- Carbopack, Carboxen, etc.

Focusing trap

- Focusing trap with various sorbent materials
- Depending on polarity, other properties or boiling point range of compounds to be determined various focusing trap are available

For research use only. Not for use in diagnostic procedures.

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