

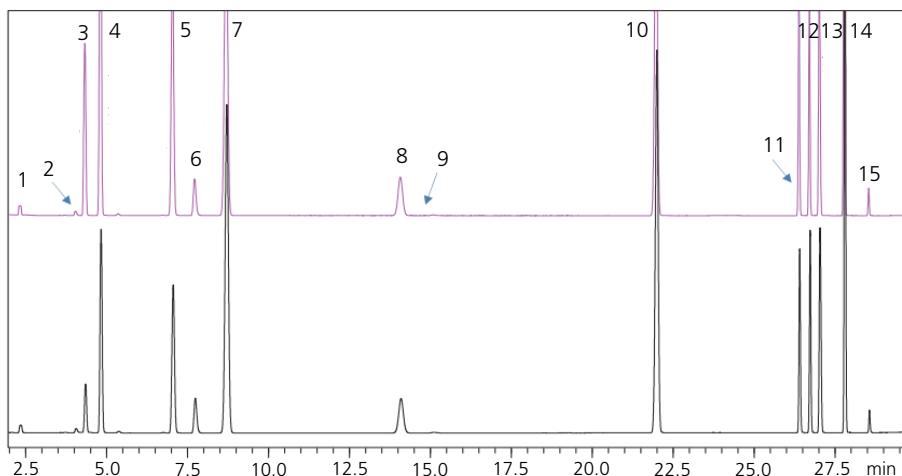
CoreFocus
Report
No.383

GCMS FID HS SH Series

SH-I-624Sil MS

Analysis of Residual Solvents in Pharmaceuticals

Keywords: Headspace



1. Methanol
2. Acetonitrile
3. Methylene Chloride
4. *trans*-1,2-Dichloroethene
5. *cis*-1,2-Dichloroethene
6. Tetrahydrofuran
7. Cyclohexane
8. Methylcyclohexane
9. 1,4-Dioxane
10. Toluene
11. Chlorobenzene
12. Ethylbenzene
13. *m,p*-Xylene
14. *o*-Xylene
15. Cumene

Model	:	GCMS-QP™2020/HS-20/FID-2010 Plus Splitting System	GC	Column	:	SH-I-624Sil MS (30 m x 0.32 mm I.D., 1.8 μ m) P/N : 227-36077-01
HS				Injection mode	:	Split (Split ratio 1:5)
Mode	:	Loop (volume 1 mL)		Control mode	:	Constant pressure (89.4 kPa)
Oven temp.	:	80 °C		Carrier gas	:	He
Sample line temp.	:	90 °C		Oven temp.	:	40 °C (20 min) - 10 °C/min - 240 °C (20 min)
Transfer line temp.	:	105 °C		Restrictor (FID)	:	1.1 m x 0.25 mm
Gas pressure for vial pressurization	:	76.4 kPa		Restrictor (MS)	:	1.5 m x 0.20 mm
Vial equilibrating time	:	45 min		APC pressure	:	20 kPa
Vial pressurizing time	:	2.0 min	FID	Temp.	:	250 °C
Pressure equilibrating time	:	0.1 min		Make-up flow rate	:	30 mL/min (He)
Load time	:	0.5 min		Hydrogen flow rate	:	40 mL/min
Load equilibrating time	:	0.1 min		Air flow rate	:	400 mL/min
Injection time	:	0.5 min	MS	Ion source temp.	:	200 °C
Needle flushing time	:	15.0 min		Interface temp.	:	250 °C
APC pressure	:	20 kPa		SCAN range	:	<i>m/z</i> 29 to 250
				Event time	:	0.3 s

Source : Application News M272 ([JP](#), [ENG](#))

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