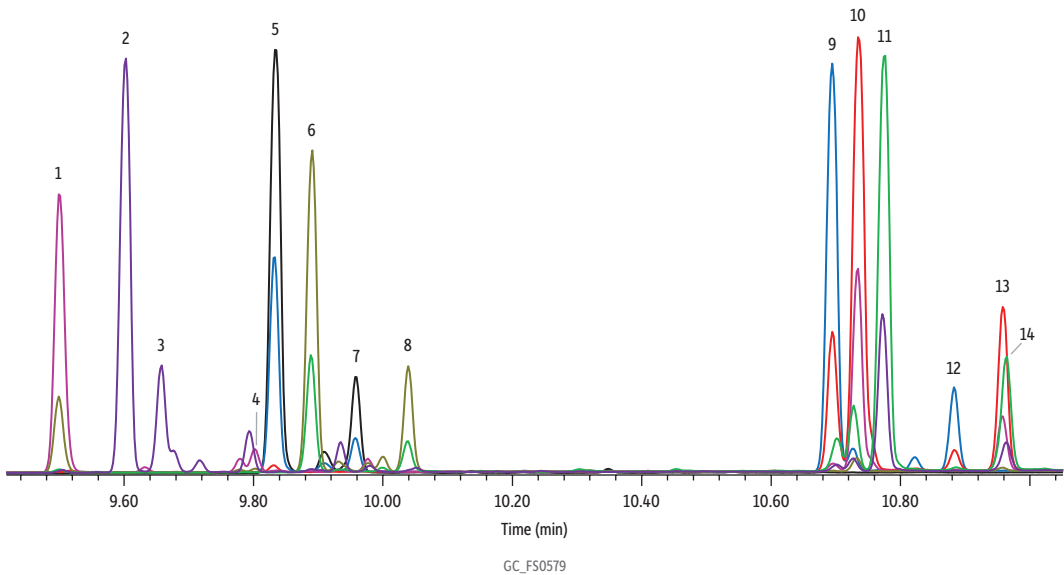


Sugar TMS oximes on Rtx-1701



Peaks	tr (min)	Peaks	tr (min)
1. (E)-Xylose-TMS-oxime	9.501	8. (Z)-Fucose-TMS-oxime	10.039
2. (E)-Ribose-TMS-oxime	9.603	9. (E)-Mannose-TMS-oxime	10.668
3. (Z)-Ribose-TMS-oxime	9.658	10. (E)-Galactose-TMS-oxime	10.737
4. (Z)-Xylose-TMS-oxime	9.805	11. (E)-Glucose-TMS-oxime	10.775
5. (E)-Rhamnose-TMS-oxime	9.863	12. (Z)-Mannose-TMS-oxime	10.881
6. (E)-Fucose-TMS-oxime	9.891	13. (Z)-Galactose-TMS-oxime	10.956
7. (Z)-Rhamnose-TMS-oxime	9.957	14. (Z)-Glucose-TMS-oxime	10.963

Column	Rtx-1701, 30 m, 0.25 mm ID, 0.25 µm (cat.# 12023)
Standard/Sample	Sugar TMS oximes
Diluent:	Ethyl acetate
Conc.:	1-5 mg of starting material
Injection	
Inj. Vol.:	1 µL split (split ratio 100:1)
Liner:	Topaz 4.0 mm ID Precision Inlet Liner w/ Wool (cat.# 23305)
Inj. Temp.:	250 °C
Oven	
Oven Temp.:	40 °C (hold 1 min) to 280 °C at 19 °C/min
Carrier Gas	He, constant flow
Flow Rate:	1.4 mL/min
Linear Velocity:	45.023 cm/sec @ 150 °C
Dead Time:	1.11 min @ 150 °C
Detector	MS
Mode:	Scan
Scan Program:	

Group	Start Time (min)	Scan Range (amu)	Scan Rate (scans/sec)
1	1.5	50-750	7.5

Transfer Line Temp.:	280 °C
Analyzer Type:	Quadrupole
Source Type:	Extractor
Source Temp.:	280 °C
Quad Temp.:	150 °C
Electron Energy:	977 eV
Solvent Delay Time:	1.5 min
Tune Type:	PFTBA
Ionization Mode:	El
Instrument	Agilent 7890B GC & 5977A MSD
Notes	Approximately 1 mg of sugar was dissolved in 100 µL of 40 mg/mL ethylhydroxylaminehydrochloride (EtOx) and heated at 70 °C for 30 min. Samples were cooled to room temperature for approximately 5 min. 120 µL of N-Methyl-bis(trifluoroacetamide) (MBTFA) was added to each sample and then heated at 70 °C for 30 min. Samples were diluted 1:100 in ethyl acetate.