

Application Chroma TCD He Ne, H2 and Ar in Helium

Operating conditions :

Carrier gas: He: 8 mL/min

Oven 1: Column 1 : porapak Q; Temperature= 75°C

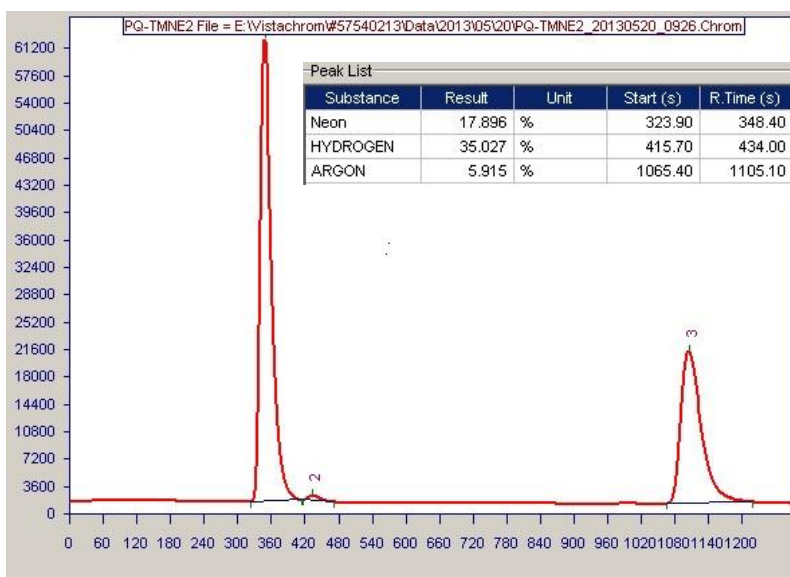
Oven 2: Column 2 : Molecular Sieve; Temperature= 65°C

Injection : 0.5 mL loop

Detector : Thermal Conductivity Detector (TCD)

sample: mix of Ne, H2 and Ar

Amplification: 2



20/05/2013

Ne, H2 and Ar in Helium

Information and operating conditions

Analyser :

Serial Number : #57540213

Owner :

Location : chromatousd

Operating conditions :

Description : Molecular sieve

Method Name : PQ-TMNE2

Substances Table Name : PQ-TMNE2

Sampling :

Tube Number : 1

Duration : 29 s

Volume : 0.5 ml

Date : 20-05-2013 09:26:00

Detector :

Amplification : 2-Middle

Sample Rate : 10 per second

Peak List

Substance	Result	Unit	Start (s)	R.Time (s)	Max	Stop (s)	Area	Type
Neon	17.896	%	323.90	348.40	62938	413.50	1.50229E6	ST_E
HYDROGEN	35.027	%	415.70	434.00	2671	470.90	17837.5	ST_E
ARGON	5.915	%	1065.40	1105.10	21695	1217.90	854790.0	ST_E

Peak list of the results

LDL Calculation:

For loop 0.5 mL and amplification 2 :

Ne area= 1502290 = 178 960 ppm; for min area=500, LDL= 59.6 ppm

For loop 0.5 mL and amplification 3 :

LDL for Ne= 5.96 ppm (=59.6/10)

For loop 1 mL and amplification 3 :

LDL for Ne= 2.98 ppm (=5.96/2)

For loop 2 mL and amplification 3 :

LDL for Ne= 1.49 ppm (=2.98/2)