

Q1.

Convert kg to kmol. using Molar Mass

$$M = \frac{m}{n} \quad \therefore \quad n = \frac{m}{M}$$

	kg	M (kg/kmol)	kmol	% vol.
CO ₂	0.171	44	0.00389	12.5
CO	0.020	28	0.00071	2.3
N ₂	0.700	28	0.02500	80.2
O ₂	0.050	32	0.00156	5.0
			<u>Σ 0.03116</u>	

(% vol = % kmol)