02.1	A sample o Table 1 giv	of sulfur consisting of three iso ves the relative abundance of	topes has two of thes	a relative a se isotopes	itomic mass o	f 32.16
		Table 1				
		Mass number of isotope	32	33		
		Relative abundance / %	91.0	1.8		
	Use this in number of Give your	formation to determine the rel the third isotope. answer to the appropriate nun	ative abun nber of sig	dance and nificant figu	hence the ma res.	ss [4 marks]
			Mass nu	mber =		
02.2	Describe h	now ions are formed in a time o	of flight (TC	DF) mass s	pectrometer.	[2 marks]

Explain why it is necessary to ionise molecules when measuring their mass in a TOF mass spectrometer.
[2 marl
Turn over for the next succeiver
Turn over for the next question