PART I. Analytical Tasks and Instruments

A. Analytical Tasks

The analytical tasks required for the verification of the Chemical Weapons Convention are the following:

- Monitoring of known compounds (compounds included in the schedules 1 and 2 and included in the databases).

- Monitoring of compounds for structure elucidation (compounds not included in the data base)

- Unambiguous identification of compounds (known compounds).

- Structure elucidation (detailed analysis of unknown chemicals).

- Semiguantification.

These tasks can invariably be performed with several types of instruments. The choice of a particular type of instrument in a given situation will depend on a number of factors like requirements for sensitivity and reliability and portability. The suitability of the following instruments for the required analytical tasks was considered in the Group:

-	GC allest habity levels	=	gas chromatograph
-	HPLC	=	high performance liquid chromatograph
-	MS to pathena lening	=	mass spectrometer
-	LRMS per short the matrix	=	low resolution mass spectrometer
-	HRMS and golderichten bei	=	high resolution mass spectrometer
-	MS/MS	=	tandem mass spectrometer (any combination of LRMS and
			HRMS)
-	IR	=	infrared spectrometer
-	FTIR	-	Fourier transform infrared spectrometer
-	NMR a policial and as b	-	nuclear magnetic resonance spectrometer
-	GC-MS, GC-FTIR	=	combinations of instruments