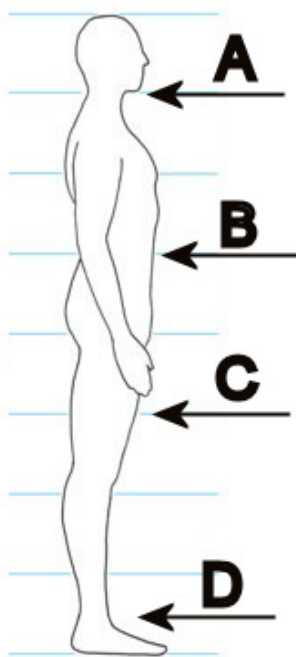


## Situation 5

A man is observed acting strangely on board a bus passing a border crossing. Upon disembarkation for checking of papers the man passes in front of the radiation portal monitor at the roadside and an alarm is signalled. The man maintains he has recently been in hospital and is travelling to visit his relatives to recuperate. Handheld monitors indicate the possible presence of a source on the man who refuses to submit to a search of his person. Localisation or identification of the source is beyond the capabilities of the border personnel who ask the authorities to assist.

The authorities conduct a scan of the man using a HPGe detector. A series of four measurements are made – the first near his head/neck (Measurement A), the second near his thorax (Measurement B), the third near his pockets (Measurement C) and the fourth near his shoes (Measurement D). Measurement points are indicated in the attached diagram. The measurements were made approximately 20 cm away from the surface of the body in each case. No separate background measurement was made.



Spectra provided:

Spectrum taken at position A  
Spectrum taken at position B  
Spectrum taken at position C  
Spectrum taken at position D

Situation 5 position A.chn/.cnf/.spec/.txt/.phd  
Situation 5 position B.chn/.cnf/.spec/.txt/.phd  
Situation 5 position C.chn/.cnf/.spec/.txt/.phd  
Situation 5 position D.chn/.cnf/.spec/.txt/.phd