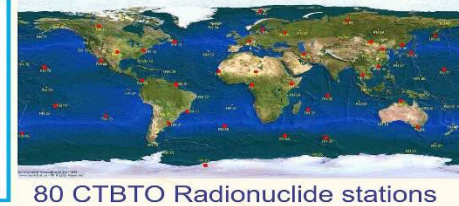
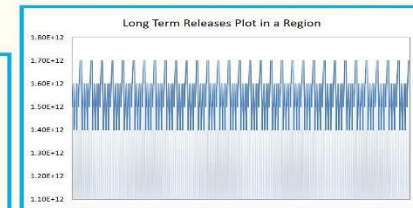
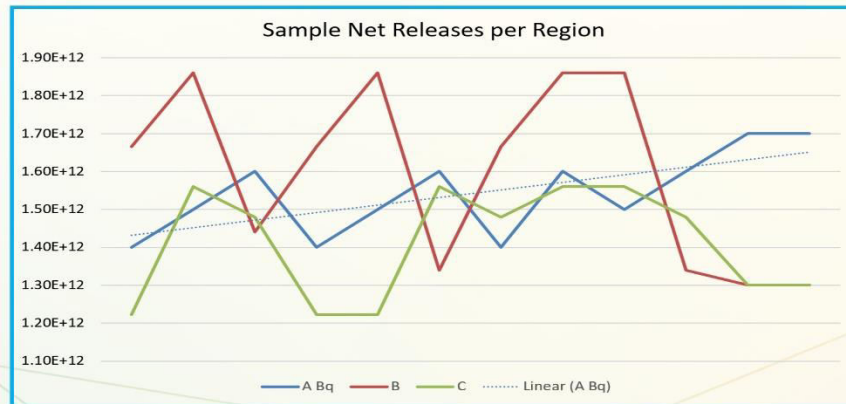
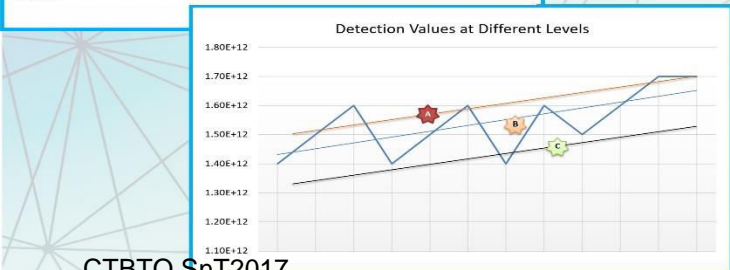
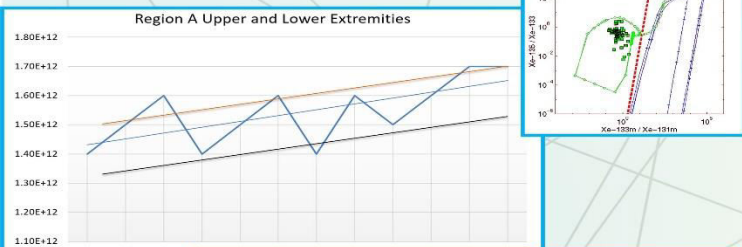


Statistical Techniques for Estimation of Global Isotopes Release Affecting Test Detection

A fairly good estimate of net global (and regional) release of CTBT related isotopes can be formed by a system based on estimates of total isotopes production across the world (and regions) by all known facilities.



Upper and lower limit curves can be formed using both types of estimates while excluding outliers initially for inclusion post successful testing(s). A set of curves comprising different corresponding levels to which probabilities can be assigned can be formed.

These curves can be validated over a specified time by comparing values with physically found results from sensors beside gradual perfection. This system can help in validation of all test related detection(s) to a fairly accurate level while helping in validation of results obtained through other methods.