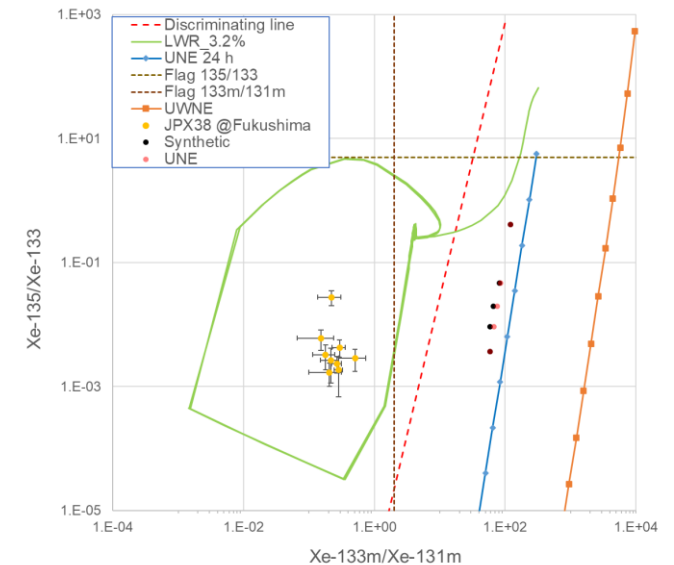
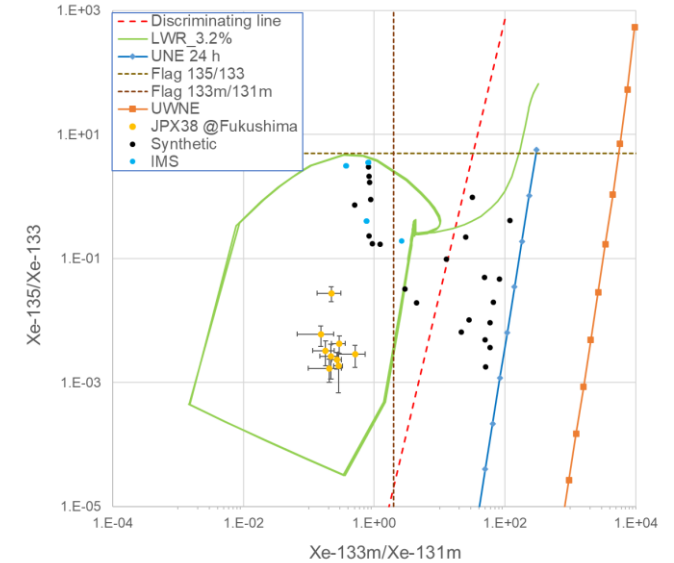


Radioxenon background subtraction is necessary for event discrimination:

- Estimation using IMS observation plus atmospheric transport simulations (ensemble dispersion modelling)
- Impacts on isotopic ratios and event discrimination

Four Radioxenon plot

- Data set of 1st Nuclear Explosion Signal Screening Open Inter-Comparison Exercise 2021 is used in this investigation.
- All four radioxenon detected in
 - Both synthetic and UNE signals, 5 samples;
 - Synthetic signals, 23 samples;
 - Radioxenon background (IMS measured) 12 samples.



If you want to learn more about this, come see my e-poster during session 2.1 on Wednesday 21st or access it online on the SnT2023 Conference platform!