

## **Radionuclide Identification Device Specification**

- Must measure Neutron and Gamma radioactive sources
- Must not have an intrinsic radioactive source
- Must be IP67 1meter 30 minutes rated- ideal for all climates and great for decontamination and fully enclosed
- Must have a dose rate range of 1 rem/h with a dose rate tolerance of  $\pm 10\%$  (Cs-137)
- Must have a 3 button control interface with color screen that is readable in sunlight
- Must have 360 degree detection coverage
- Must have an Internal battery li-ion battery that lasts up to 12 hours of running continuously
- Must have Dual USB-C ports for download and upload of data
- Must have Built in Bluetooth and GPS
- Must have an applicable mobile app that is compatible
- Must have a compatible web interface to assist end users with data uploading for identification.
- Must have Neutron sensitivity  $> 4$  cps/nv
- Must have Gamma sensitivity 1610 cps/uSv/h
- Must have Gamma spectrum length of 1024 channels
- Must have Gamma energy range 25 keV – 3MeV.
- Must have 5-year factory maintenance range
- Must have Operating humidity of 10 to 93%, non-condensing
- Must have Operating temperatures of  $-20^{\circ}$  to  $140^{\circ}$