

RADIO-FREQUENCY IMAGING FOR SECURITY AND EOD OPERATIONS

PROBLEM / OPPORTUNITY

- **Air Force needs to know what is inside suspicious objects...**
- **...but seeing is not the same as identifying**
- **No current tech can economically do both**
- X-ray only sees shapes, and modern threats like explosives and drugs don't have neat outlines like guns

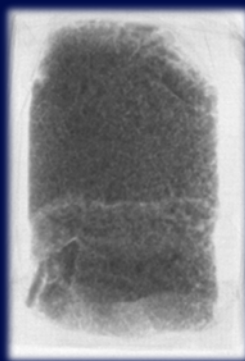
PROPOSED SOLUTION

- **Spectrohm detects the unique RF signatures of different materials**
- **These supercharge AI's ability to identify contents rapidly**
- Our innovation is a new way of using radio waves both to see deep inside objects and also to identify threat materials

IMPACT

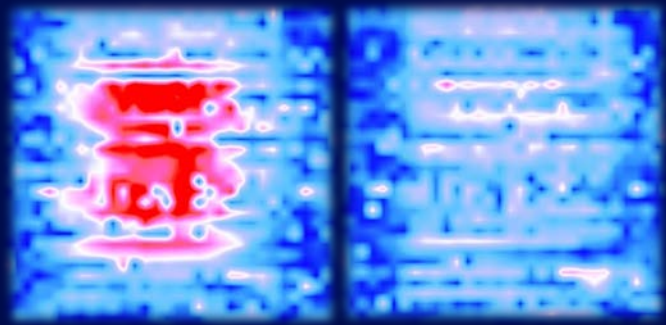
- **Rapid, smart identification of threat materials saves lives, saves time, saves money**
- Enhanced safety and faster resolution of suspicious packages and potential IEDs
- Detection of features not visible in x-ray that may be critical to neutralizing a threat

Under X-ray, you can only see the shape.



Spectrohm identifies the materials within a package.

Here, we spotted the concealed water (red) within one of two visually identical blocks of wax (light blue).



TIMELINE
 Phase I End: 8 May 2021
 Phase II Start: spring/summer 2021
 Phase II End (planned): 2022