

WHITE PAPER

Trace Detection in the Field Expedites Prosecution

To expedite adjudication of cases involving trafficking, manufacturing, or possession of controlled substances, Federal, State & local law enforcement agents / officers need easy to use field identification technology that provides:

- Rapid and accurate on-scene analysis requiring no user interpretation
- Admissible, defensible evidence that can secure probable cause, facilitate warrants, and generate seizures
- Minimal Officer exposure to highly toxic substances like synthetic opioids

The MX908™ offers all of these advantages. Powered by the selectivity and sensitivity of high-pressure mass spectrometry™ (HPMS), operators can use a simple swab test to verify unknown substances contained in sealed suspicious packaging, vehicle surfaces and compartments, and even non-visible powder residues to determine detectable trace amounts of product. Using its powerful Drug Hunter Mission Mode, the MX908 provides rapid, on scene identification of controlled substances in 60 seconds or less. This intelligence can establish linkages, generate probable cause for search warrants and even help expedite pleas before indictment. Furthermore, results indicating that no controlled substances have been detected can also exonerate the innocent and redirect investigatory resources since prosecutors won't need to wait weeks or even months for a lab result.

Because of its extreme sensitivity, the MX908 can identify trace levels of synthetic opioids such as fentanyl and carfentanyl contained in heavy concentrations of cutting agents, which are consistently missed by other currently deployed optical (Raman & FTIR) methods.

	Raman Spectroscopy	High-Pressure Mass Spectrometry
Salt & Crystal Forms	 Limited by libraries: This means a drug cannot be identified if the exact spectrum is not in the library	 High Target Specificity: Numerous salt and crystal forms of a given drug can be identified with a single library item
New Fentanyl Types	 Limited Identification: Novel fentanyl analogs cannot be identified if the library is not updated	 Unlimited Identification: More than 2,000 novel fentanyl analogs can be identified based on mass pattern prediction without being in the library
Limits of Detection	 High Limits: Street fentanyl cut to 1 – 5% will be masked by the cutting agent and not detected	 Low Limits: Fentanyl can be identified at 1% or less in a variety of cutting agents and other drugs

The MX908 software workflow ensures sample integrity since the automatically-stored data cannot be manipulated, and the results require no user interpretation. Certainly, certified laboratory results will be obtained for those cases that end up going to trial. However, with rapid, reliable results and its ability to identify trace amounts of substances that other technologies cannot see, the MX908 should be viewed as a powerful tool for law enforcement in the field that can help to expedite these cases through the judicial process.

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MX908 is subject to export controls including those of the Export Administration Regulations of the U.S. Department of Commerce, which may restrict or require licenses for the export of product from the United States and their re-export to and from other countries. Patented technology www.908devices.com/patents © 2019 908 Devices



MX908 provides priority threat confirmation for fast incident mitigation.

Mass spectrometry is classified as a Category A technique by the Scientific Working Group on Seized Drug Analysis (SWGDRG) and ASTM 2329-17 and has been admissible in court for more than 50 years. Numerous independent government testing agencies have documented the reliability and reproducibility of the MX908, supporting its use under Federal Laws of Evidence 402 and 702.

