COMBATING THE FENTANYL EPIDEMIC USING HANDHELD 1064 nm RAMAN

Introduction



As synthetic opioid overdose deaths continues to rise, the use of fentanyl and its analogues in legacy drugs are posing significant danger to communities, as well as first responders. Fentanyl has become popular in illicit drug sales by itself, or as a cutting agent in heroin, cocaine, and methamphetamine. The lethal dose of pure fentanyl is estimated at 2 milligrams for a typical adult (Reference: U.S. DEA). Responders encounter fentanyl in various forms, such as powder, tablet or liquid and risk potential fatal exposure if swallowed or inhaled. They are faced with this problem at our borders, in mailrooms, and on the streets.

Avoiding Exposure to Fatal Opioids

Designed for the non-scientist with results that are easy to interpret, the Rigaku portfolio of 1064nm-based handheld Raman analyzers provide fentanyl analysis for the most difficult sample types. By providing the ability to analyze bulk or trace amounts, through colored packaging, or even in mixtures, the user will always receive fast results.

Typically larger, bulk amounts of these drugs are crossing borders and smaller, even trace amounts are making its way onto our streets. It can be difficult for one analytical tool to cover such wide application needs, until now. The <u>Rigaku CQL™</u> <u>Narc-ID™ 1064 nm Raman analyzer</u> is the first field-ready handheld Raman tool to provide both bulk and trace analysis of

narcotics in seconds. Users benefit from reduced fluorescence interference of the 1064 nm Raman advantage when scanning through packaging or colored substances, while also having the ability to detect residues or non-visible amounts easily using the QuickDetect™ automated colorimetrics functionality - thus providing the ability to analyze more. Law enforcement officials are able to stay ahead of the threats posed by the rapid proliferation of fentanyl variants by easily adding new chemicals to the library as rapidly as they occur.



Result screens from the Rigaku CQL Narc-ID analyzer. The third image is an example of a result using QuickDetect Mode for non-visible sample analysis.

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CQL Gen-ID

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CQL Narc-ID

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