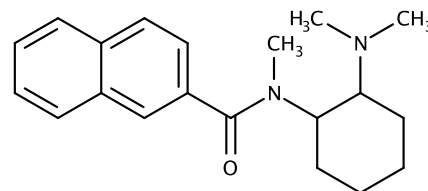


Announcement of an Emerging Synthetic Opioid

2-Naphthyl U-47700



Information sharing: Synth-Opioids participants from the Ohio Bureau of Criminal Investigation shared information on the first appearance of 2-naphthyl U-47700 in several samples within the forum on May 11, 2021. Initial mass spectral library searches hit on 1-naphthyl U-47700, but the retention times did not match. The substance was confirmed as 2-naphthyl U-47700 after obtaining a commercial reference standard.

Appearance: Seen as a white and brown substance, an off-white powder, and gelatin capsules containing a tan substance.

Other components: Samples seen with tramadol, fentanyl, and heroin.

Name: 2-naphthyl U-47700

Chemical name: N-[2-(dimethylamino)cyclohexyl]-N-methylnaphthalene-2-carboxamide

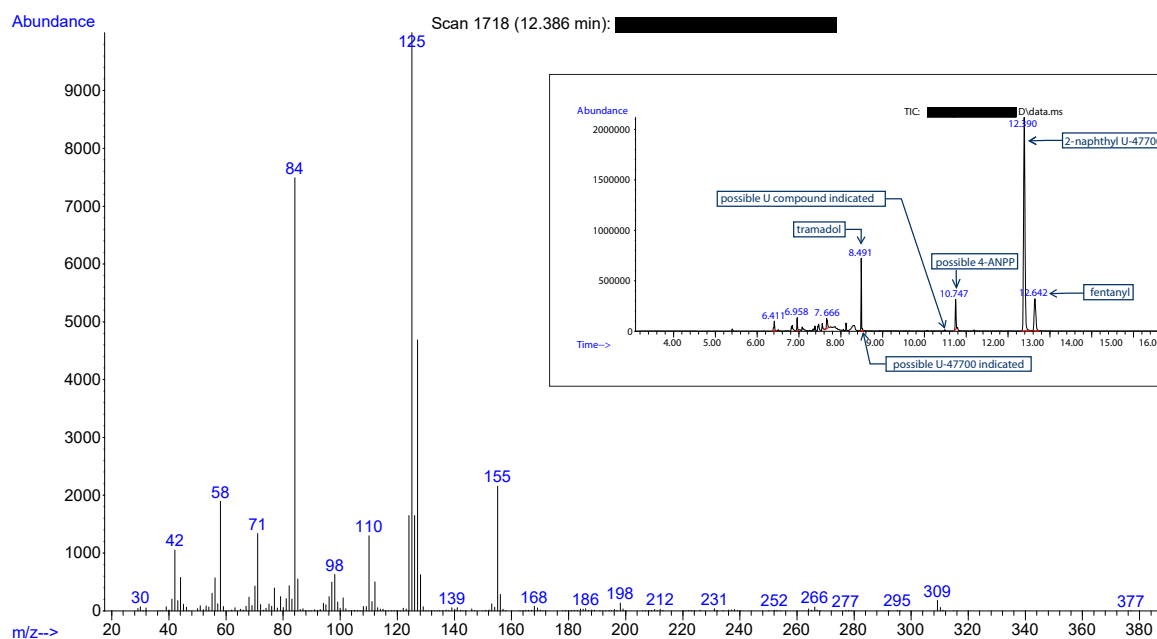
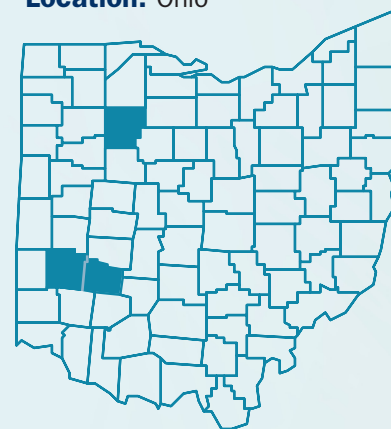
Molecular formula: C₂₀H₂₆N₂O

Molecular weight: 310.44

CAS #: 75570-67-1

Reference standard: The reference standard is available commercially.

Location: Ohio



Announcement of an Emerging Synthetic Opioid

2-Naphthyl U-47700

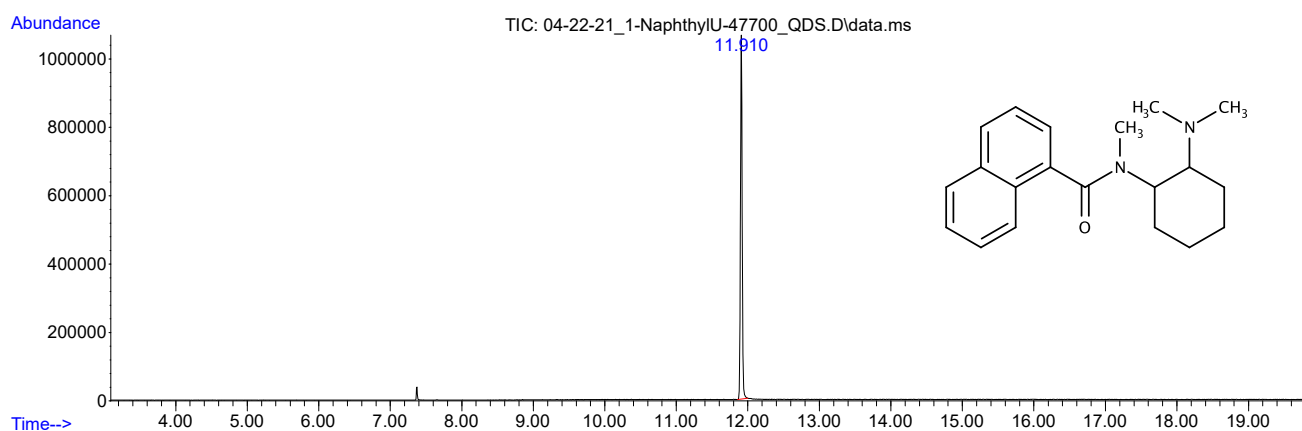
GC-MS Parameters

Column: DB-5MS 30m x 0.25mm x 0.25µm

Oven program: 100°C (hold 2 min) at 30°C/min to 305°C (hold 11 min)

Mass range: m/z 29–500

1-Naphthyl U-47700 Reference Standard



2-Naphthyl U-47700 Reference Standard

