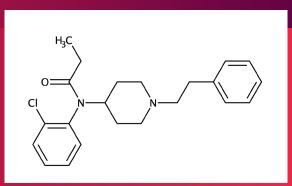
Announcement of an Emerging Fentanyl-Related Compound ortho-Chlorofentanyl



Information sharing: Synth-Opioids participants from the Florida Department of Law Enforcement shared information on first appearance of the substance within the forum on April 1, 2021. The substance was identified as the ortho isomer of chlorofentanyl based on GC-MS data. Participants from the Ohio Bureau of Criminal Investigation (BCI) provided additional GC-MS reference data for the ortho, meta, and para isomers. *ortho*-Chlorofentanyl was first reported to NFLIS-Drug in late 2020 (see table).

Appearance: White powder.
Other components: Fentanyl.

Name: ortho-chlorofentanyl

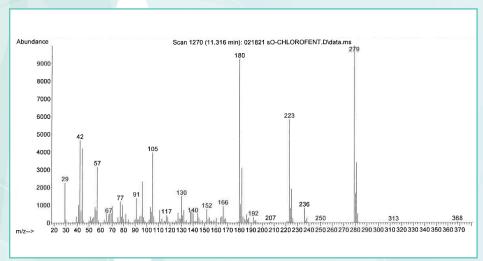
Chemical name: N-(2-chlorophenyl)-N-(1-phenethylpiperidin-4-yl)propionamide

Molecular formula: $C_{22}H_{27}CIN_2O$ Molecular weight: 370.92

CAS #: 88796-96-7 UNII: QA3HA2Q9GB

Reference standard: The reference standard is available commercially. **Website for additional information:** https://pubchem.ncbi.nlm.nih.gov/

compound/12741858



Note: GC mass spectrum of ortho-chlorofentanyl reference material from Ohio BCI.

Location: Jacksonville, Florida



Number of Chlorofentanyl Reports by State to NFLIS-Drug as of June 2, 2021

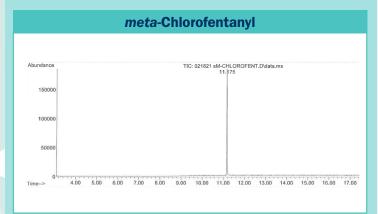
State	2020	2021
Chlorofentanyl		
Massachusetts	1	0
New Jersey	7	0
Ohio	3	1
Tennessee	3	0
para-Chlorofentanyl		
New Jersey	1	0
Ohio	16	1
ortho-Chlorofentanyl		
Ohio	3	1
Florida	0	1

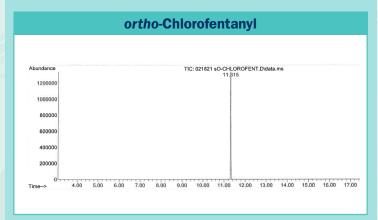
DEA Synth-Opioids

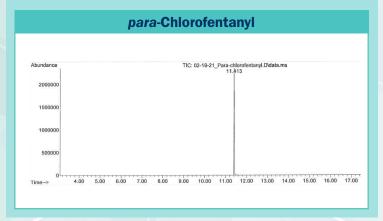
GC-MS Parameters for Reference Data Acquired by Ohio BCI

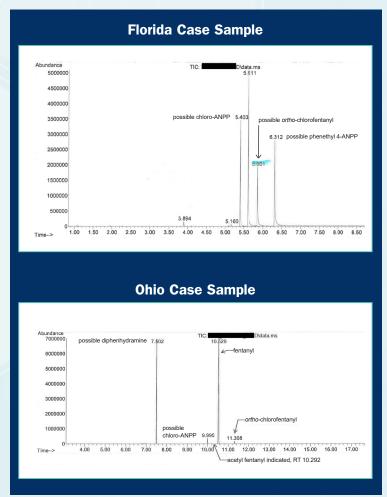
Column: DB-5MS 30m x 0.25mm x 0.25µm **Oven program:** 100°C (hold 2 min) at 30°C/

min to 305°C (hold 11 min) **Mass range:** m/z 29–500









Note: Possible chloro-ANPP was observed in case samples from Florida and Ohio.

