JWH-018 Analysis

Test Methods:

Testing was performed by a qualified preclinical ADME Tox / ADMET contract testing lab.

Test Articles:

Compound ID	Physical Form	Submitted FW	Parent MW	MW Stock solutions
JWH-018	White Solid	341.45	341.45	50mM ACN

(Test agent powders were stored at -20 °C. Stock solutions were stored at -20 °C)

Analytical Method Development:

The signal was optimized for each compound by ESI positive or negative ionization mode. A MS2 scan was used to identify the precursor ion and a product ion analysis was used to identify the best fragment for analysis and to optimize the collision energy. An ionization ranking was assigned indicating the compound's ease of ionization.

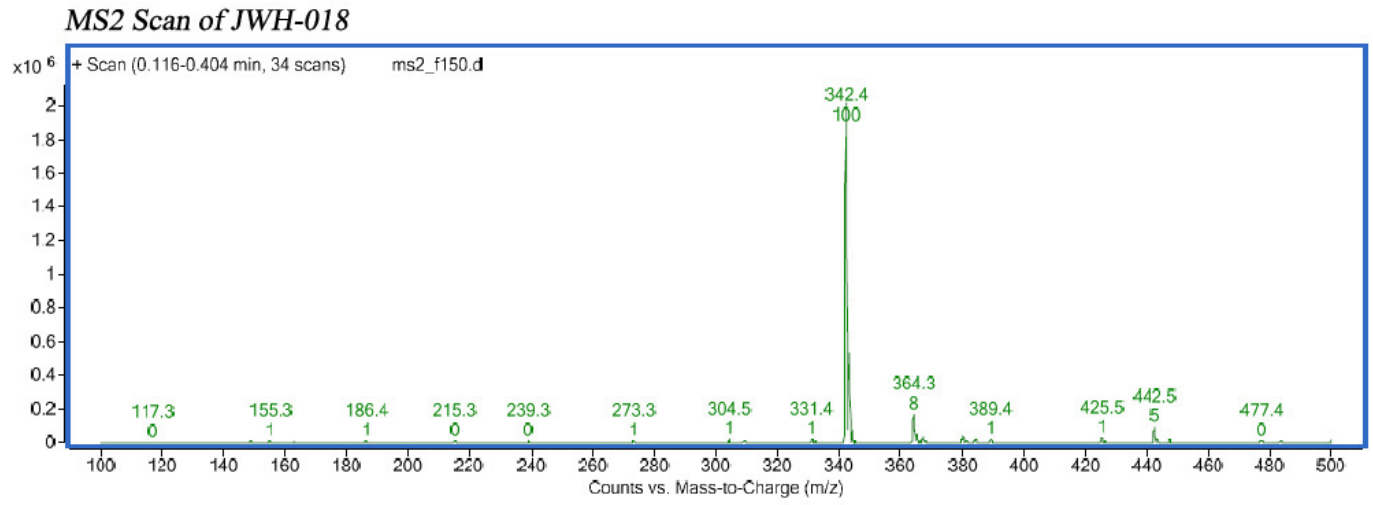
Test Compound	MW	Polarization	Precursor m/z	Product m/z	Collision energy (V)	Ionization classification*
JWH-018	341.45	Positive	342.4	155.2	22	1

*Ionization classification:
1 = Highly ionizable
2 = Intermediately ionizable
3 = Poorly ionizable

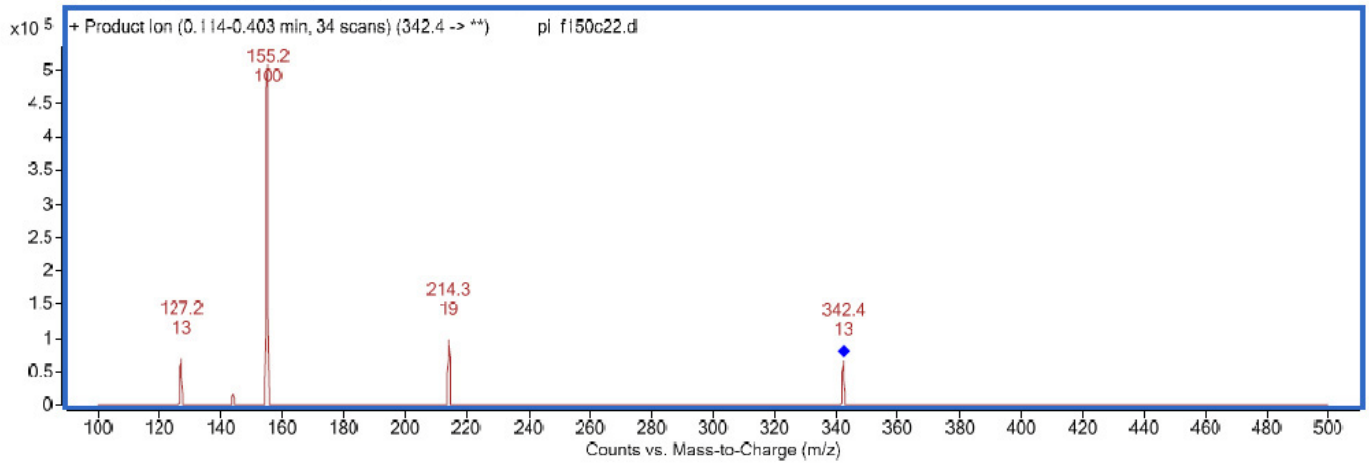
Analysis:

Samples were analyzed by LC/MS/MS using either an Agilent 6410 mass spectrometer coupled with an Agilent 1200 HPLC and a CTC PAL chilled autosampler, all controlled by MassHunter software (Agilent), or an ABI2000 mass spectrometer coupled with an Agilent 1100 HPLC and a CTC PAL chilled autosampler, all controlled by Analyst software (ABI). After separation on a C18 reverse phase HPLC column (Agilent, Waters, or equivalent) using an acetonitrile-water gradient system.

Sample Spectra and Chromatograms for the Test Agent:



Product Ion Scan JWH-018



Sample Chromatogram of JWH-018