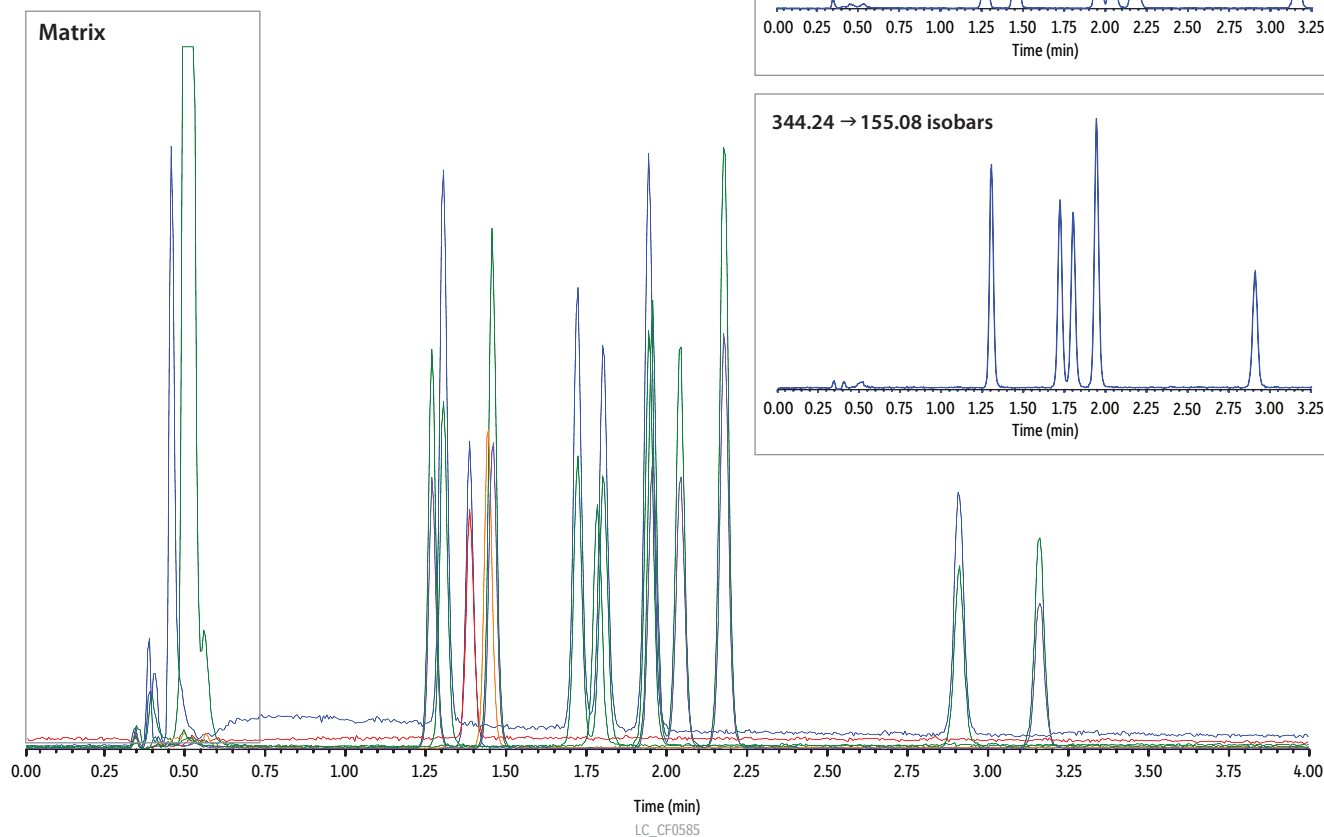


Synthetic Cannabinoid Metabolites in Urine on Raptor™ Biphenyl by LC-MS/MS

Peaks	t _R (min)	Q1	Q3 Quantifier	Q3 Qualifier
1. JWH-073 N-butanoic acid	1.27	358.27	155.08	127.11
2. JWH-073 4-hydroxybutyl	1.31	344.24	155.09	127.09
3. JWH-018 N-pentanoic acid	1.39	372.18	155.08	127.14
4. JWH-018 5-hydroxypentyl-d5 (IS)	1.44	363.50	155.08	—
5. JWH-018 5-hydroxypentyl	1.46	358.27	155.08	127.11
6. JWH-073 6-hydroxyindole	1.72	344.24	155.09	127.09
7. JWH-073 5-hydroxyindole-d7 (IS)	1.78	351.21	155.07	—
8. JWH-073 5-hydroxyindole	1.80	344.24	155.09	127.09
9. JWH-073 7-hydroxyindole	1.94	344.24	155.09	127.09
10. JWH-018 6-hydroxyindole	1.96	358.27	155.08	127.11
11. JWH-018 5-hydroxyindole	2.04	358.27	155.08	127.11
12. JWH-018 7-hydroxyindole	2.18	358.27	155.08	127.11
13. JWH-073 4-hydroxyindole	2.91	344.24	155.09	127.09
14. JWH-018 4-hydroxyindole	3.16	358.27	155.08	127.11



Column: Raptor™ Biphenyl (cat.# 9309A5E)
Dimensions: 50 mm x 3.0 mm ID
Particle Size: 2.7 µm
Guard Column: Raptor™ Biphenyl EXP® 5 mm, 3.0 mm ID, 2.7 µm (cat.# 9309A0253)
Temp.: 30 °C
Sample: Custom
Conc.: A 10 ng/mL standard was prepared in urine. 100 µL of the 10 ng/mL urine standard was diluted with 300 µL of 50:50 water:acetonitrile prior to analysis.
Inj. Vol.: 2 µL

Mobile Phase

A: 0.1% Formic acid in water
B: 0.1% Formic acid in acetonitrile

Time (min)	Flow (mL/min)	%A	%B
0.00	0.600	50	50
4.00	0.600	15	85
4.50	0.600	15	85
4.51	0.600	50	50
6.00	0.600	50	50

Detector

Ion Source: Waters Zspray™ ESI
Ion Mode: ESI+
Mode: MRM
Instrument: Waters