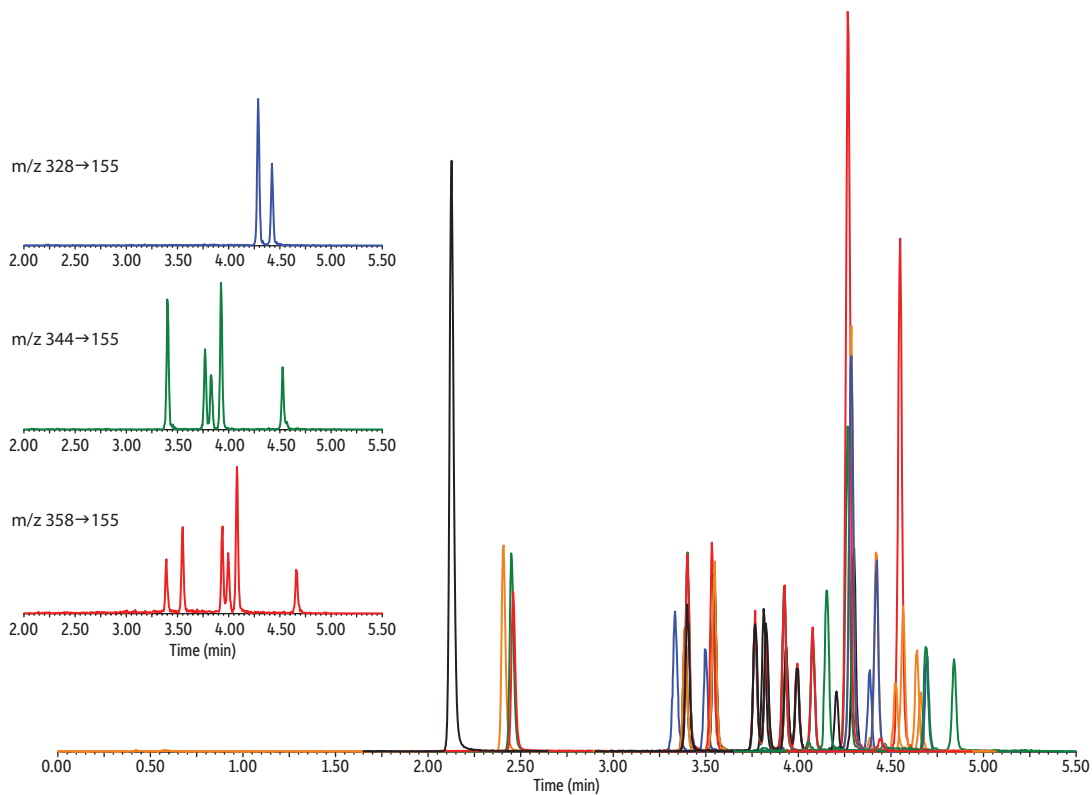


Combined Analysis of Synthetic Cannabinoids & Metabolites in Urine by LC-MS/MS on Raptor™ Biphenyl



LC_CF0613_614

Peaks	tr (min)	Precursor Ion	Quantifer Product Ion	Qualifier Product Ion
1. Pravadoline	2.15	379.29	135.04	114.16
2. AM2233	2.44	459.25	112.2	98.15
3. JWH-200-d5	2.47	390.34	155.07	NA
4. JWH-200	2.48	385.28	155.07	114.16
5. WIN 55, 212	3.34	427.29	155.07	127.14
6. JWH-073 N-butanoic acid	3.39	358.27	155.08	127.11
7. JWH-073 4-hydroxybutyl	3.4	344.24	155.09	127.09
8. JWH-018 N-pentanoic acid	3.49	372.18	155.08	127.14
9. JWH-018 5-hydroxypentyl-d5	3.54	363.5	155.08	NA
10. JWH-018 5-hydroxypentyl	3.55	358.27	155.08	127.11
11. JWH-073 6-hydroxyindole	3.77	344.24	155.09	127.09
12. JWH-073 5-hydroxyindole-d7	3.81	351.21	155.07	NA
13. JWH-073 5-hydroxyindole	3.83	344.24	155.09	127.09
14. JWH-073 7-hydroxyindole	3.92	344.24	155.09	127.09
15. JWH-018 6-hydroxyindole	3.94	358.27	155.08	127.11
16. JWH-018 5-hydroxyindole	3.99	358.27	155.08	127.11
17. JWH-018 7-hydroxyindole	4.08	358.27	155.08	127.11
18. RCS-4	4.15	322.27	135.12	77.09
19. XLR-11	4.21	330.25	232.17	125.1
20. JWH-015-d7	4.27	335.28	155.07	NA
21. JWH-250	4.27	336.28	121.12	91.07
22. JWH-015	4.29	328.26	155.07	127.13
23. AM2201	4.30	360.26	155.07	127.14
24. JWH-203	4.39	340.23	188.18	125.09
25. JWH-073	4.42	328.26	155.07	127.13
26. UR-144	4.44	312.32	214.17	125.1
27. JWH-073 4-hydroxyindole	4.53	344.24	155.09	127.09
28. JWH-018-d9	4.55	351.34	155.07	NA
29. JWH-018	4.57	342.27	155.08	127.11
30. JWH-081	4.64	372.28	185.12	157.09
31. JWH-018 4-hydroxyindole	4.66	358.27	155.08	127.11
32. JWH-122	4.69	356.29	169.12	141.11
33. JWH-019	4.70	356.29	155.07	127.1
34. JWH-210	4.84	370.31	183.12	153.26

Column Raptor Biphenyl (cat.# 9309A5E)
Dimensions: 50 mm x 3.0 mm ID
Particle Size: 2.7 µm
Guard Column: Raptor Biphenyl EXP guard column cartridge 5.0 mm, 3.0 mm ID, 2.7 µm (cat.# 9309A0253)

Sample
Conc.: 5 ng/mL standard was prepared in urine and diluted 3x with 50:50 methanol:water

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	0.6	75	25
1.00	0.6	75	25
5.00	0.6	5	95
5.50	0.6	5	95
5.51	0.6	75	25
7.00	0.6	75	25

Detector MS/MS
Ion Mode: ESI+
Mode: MRM
Instrument UHPLC