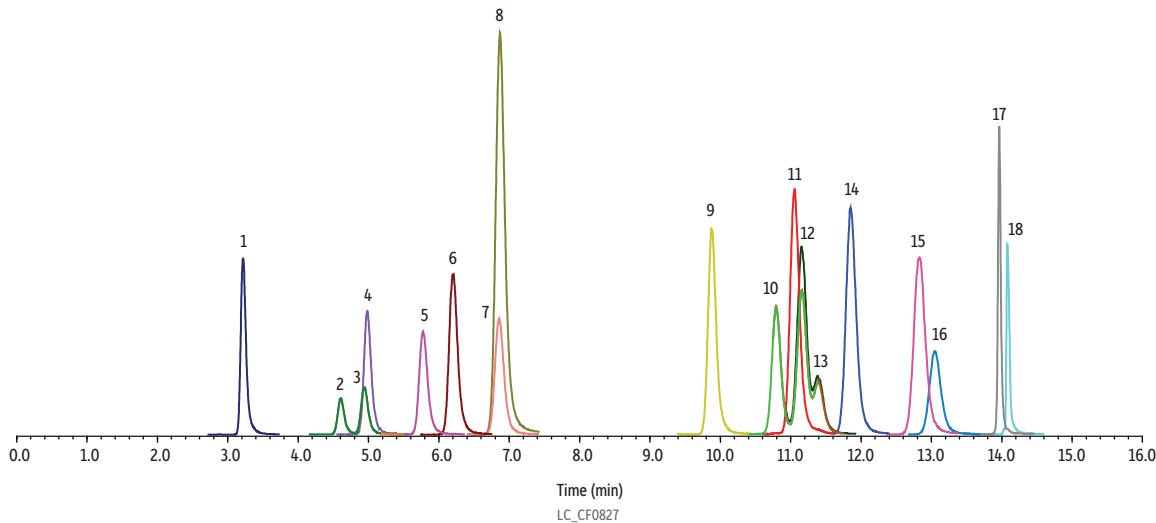


Δ9-THC; Δ8-THC; Metabolites and 12 Structurally Similar Cannabinoids on Raptor FluoroPhenyl



Peaks	tr (min)	Precursor	Product 1	Product 2	Peaks	tr (min)	Precursor	Product 1	Product 2
1. CBDV	3.22	286.9	165.1	122.9	10. Δ8-THC	10.80	315.0	193.0	123.2
2. 11-OH-Δ8-THC	4.60	331.0	313.0	201.1	11. 9(S)-HHC	11.05	317.0	193.0	123.1
3. 11-OH-Δ8-THC	4.94	331.0	313.0	201.1	12. Δ9-THC	11.16	315.0	193.0	123.2
4. Δ8-THC-COOH	4.98	345.1	327.0	299.2	13. CBL	11.40	315.0	193.0	123.2
5. Δ8-THC-COOH	5.77	345.1	327.0	299.2	14. 9(R)-HHC	11.85	317.0	193.0	123.1
6. CBD	6.20	315.0	193.0	123.2	15. CBN	12.82	311.1	223.0	293.2
7. THCV	6.85	286.9	165.1	122.9	16. Δ10-THC	13.05	315.0	193.0	259.2
8. CBG	6.87	317.0	193.1	123.0	17. CBC	13.96	315.0	193.0	123.2
9. exo-THC	9.88	315.0	193.0	123.2	18. THCA-A	14.08	359.3	341.2	219.0

Column	Raptor FluoroPhenyl (cat.# 9319A1E)
Dimensions:	100 mm x 3 mm ID
Particle Size:	2.7 μm
Pore Size:	90 Å
Guard Column:	Raptor FluoroPhenyl EXP guard column cartridge 5 mm, 3 mm ID, 2.7 μm (cat.# 9319A0253)
Temp.:	40 °C
Standard/Sample	Δ8-Tetrahydrocannabinol (Δ8-THC) (cat.# 34090) Δ9-Tetrahydrocannabinol (Δ9-THC) (cat.# 34067) (±)11-nor-9-carboxy-Δ-9-THC (Δ9-THC-COOH) (cat.# 34068) Cannabinoids Neutrals 9 standard (cat.# 34132) delta 9-Tetrahydrocannabinolic acid A (THCA-A) standard (cat.# 34111) Other compounds obtained separately.
Diluent:	40:60 Water:methanol, both with 0.1% formic acid (v/v)
Conc.:	100 ng/mL
Inj. Vol.:	5 μL
Mobile Phase	
A:	Water, 0.1% formic acid
B:	Methanol, 0.1% formic acid

Time (min)	Flow (mL/min)	%A	%B
0.00	0.8	36	64
6.50	0.8	36	64
6.60	0.8	32	68
13.00	0.8	32	68
13.10	0.8	0	100
14.00	0.8	0	100
14.10	0.8	36	64
16.00	0.8	36	64

Max Pressure:	390 bar
Detector	Shimadzu 8045 MS/MS
Ion Mode:	ESI+
Instrument	Shimadzu Nexera X2
Sample Preparation	Five hundred microliters of whole blood was transferred to a 12 mL glass test tube. Fifty microliters of internal standard and 50 μL of control material were transferred to the test tube and vortexed. Five hundred microliters of HPLC grade water was added to each sample and vortexed. One hundred microliters of 10% acetic acid was added to each sample and vortexed. Two and a half milliliters of 80:20 hexanes:ethyl acetate was added to each sample and vortexed until visibly combined. Samples were centrifuged at 2800 rpm for 15 minutes. The top layer was transferred to a new glass test tube and dried down under nitrogen. Samples were reconstituted with 100 μL of 40:60 methanol:water, both containing 0.1% formic acid, and vortexed. Samples were transferred to 2 mL screw-thread vials (cat.# 21143) with glass inserts (cat.# 21776) and capped with short-cap, screw-vial closures (cat.# 24498). The column was stored in 100% acetonitrile when not in use.
Notes	