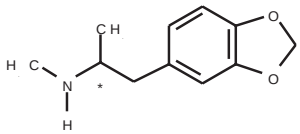
Ecstasy (MDMA) and Metabolites

Conditions

Column:	XTerra® MS C_{18} 2.1 x 150 mm, 3.5 µm
Part Number:	186000408
Mobile Phase A:	20 mM NH_4HCO_3, pH 9.0
Mobile Phase B:	MeOH
Flow rate:	0.2 mL/min
Isocratic Mobile Phase Composition:	70% A; 30% B
Injection Volume:	15 µL
Temperature:	30°C
Detection:	MS ESI+
Instrument:	Alliance® 2695, Micromass® ZQ™



Ecstasy (MDMA)

Oasis® MCX Extraction Method
Oasis MCX® 1cc/30mg
186000252

Condition
1mL methanol / 1 mL water

Load
Prepare Sample glucuronidase, pH 5.2 8 hrs @ 37° 1 mL sample

Wash #1
2 mL 0.1 N HCl
locks drugs by cation exchange

Wash #2
1 mL methanol removes acidic and neutral interferences

Re-Equilibrate
1 mL water

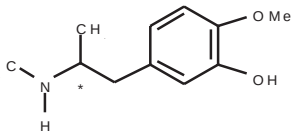
Wash #3
1 mL 70:30 5% NH_4OH/methanol
removes most basic interferences

Elute
2 x 1 mL methanol(10% NH_4OH)

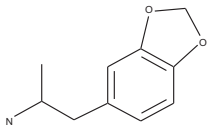
MS Conditions

Micromass ZQ
ESI+

Capillary (KV):	3.0
Cone (V):	30
Extractor:	3.0
RF Lens:	0.1
Source Temp:	150
Desolvation Temp:	350
Cone Gas Flow (L/Hr):	50
Desolvation Gas Flow (L/Hr):	500
LM Resolution:	15
HM Resolution:	15
Ion Energy:	0.1
Multiplier (V):	650



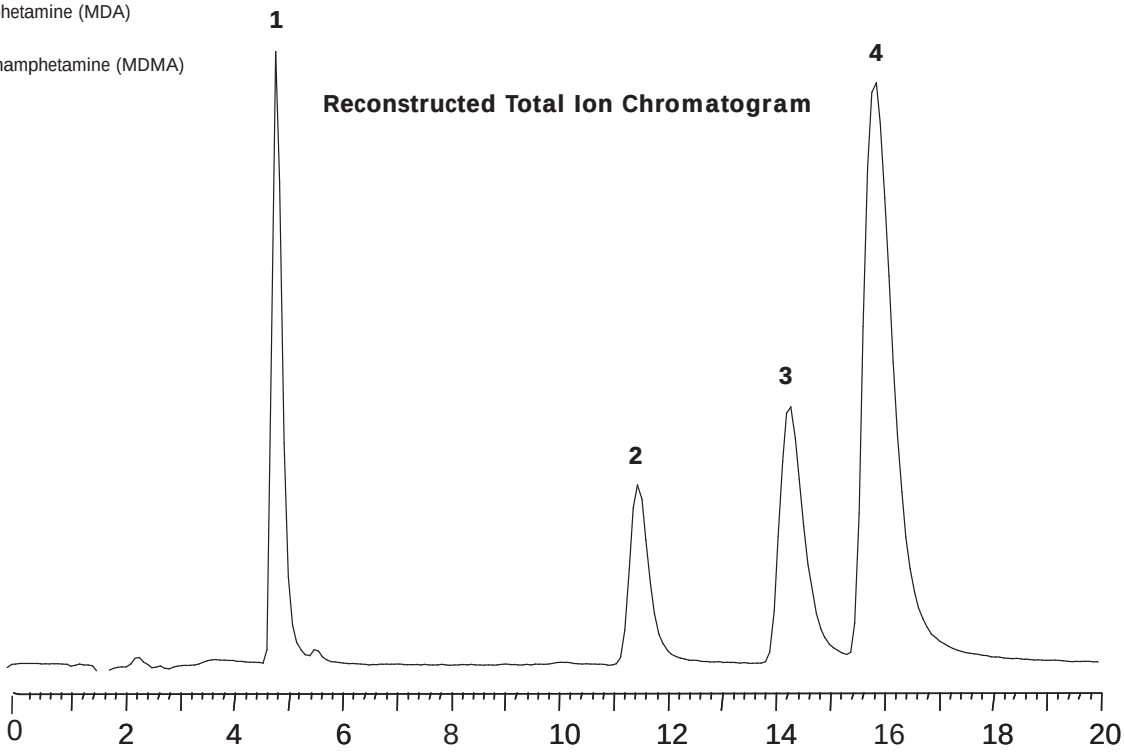
Ecstasy Metabolite (HMMA)



3,4-Methylenedioxyamphetamine (MDA)

Compounds:

1. 4-Hydroxy-3-methoxymetmamphetamine (HMMA)
2. 3,4-Methylenedioxyamphetamine (MDA)
3. MDMA-*D5* (ISTD)
4. 3,4-Methylenedioxymethamphetamine (MDMA)



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