



Effective Date:  
Monday, March 09, 2015

## Test Updates

### Immediate Action

In our continuing effort to provide you with the highest quality toxicology laboratory services available, we have compiled important changes regarding a number of tests we perform. Listed below are the types of changes that may be included in this notification, effective Monday, March 09, 2015

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**Test Changes** - Tests that have had changes to the method/ CPT code, units of measurement, scope of analysis, reference comments, or specimen requirements.

**Discontinued Tests** - Tests being discontinued with alternate testing suggestions.

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Please use this information to update your computer systems/records. These changes are important to ensure standardization of our mutual laboratory databases.

If you have any questions about the information contained in this notification, please call our Client Support Department at (866) 522-2206. Thank you for your continued support of NMS Labs and your assistance in implementing these changes.

The CPT Codes provided in this document are based on AMA guidelines and are for informational purposes only. NMS Labs does not assume responsibility for billing errors due to reliance on the CPT Codes listed in this document.



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## Test Updates

Test Code	Test Name	Test Name	Method / CPT Code	Specimen Req.	Stability	Scope	Units	Reference Comments	Discontinue
8756B	Bath Salts and Stimulants Designer Drugs - Expanded, Blood					•			
8756SP	Bath Salts and Stimulants Designer Drugs - Expanded, Serum/Plasma					•			
8756U	Bath Salts and Stimulants Designer Drugs - Expanded, Urine					•			
8075B	Drug Impaired Driving/DRE Toxicology Expanded Drug Screen Add-On, Blood (Forensic)					•			
8075SP	Drug Impaired Driving/DRE Toxicology Expanded Drug Screen Add-On, Serum/Plasma (Forensic)					•			
8075U	Drug Impaired Driving/DRE Toxicology Expanded Drug Screen Add-On, Urine (Forensic)					•			
1876B	Drug Screen - Expanded, Blood					•			
1876SP	Drug Screen - Expanded, Serum/Plasma					•			
1876U	Drug Screen - Expanded, Urine					•			
3078U	Mitragynine (Qualitative), Urine	•			•	•		•	
54342B	Mitragynine, Phenazepam Confirmation (Qualitative) (Drug Impaired Driving/DRE Toxicology), Blood (Forensic)	•		•	•	•			
54342SP	Mitragynine, Phenazepam Confirmation (Qualitative) (Drug Impaired Driving/DRE Toxicology), Serum/Plasma (Forensic)	•		•	•	•			
54342U	Mitragynine, Phenazepam Confirmation (Qualitative) (Drug Impaired Driving/DRE Toxicology), Urine (Forensic)	•		•	•	•			
52381B	Mitragynine, Phenazepam Confirmation (Qualitative), Blood	•		•	•	•		•	
52381SP	Mitragynine, Phenazepam Confirmation (Qualitative), Serum/Plasma	•		•	•	•		•	
52381U	Mitragynine, Phenazepam Confirmation (Qualitative), Urine	•		•	•	•		•	
8063B	Postmortem Toxicology - Basic to Expanded Upgrade, Blood (Forensic)					•			
8063SP	Postmortem Toxicology - Basic to Expanded Upgrade, Serum/Plasma (Forensic)					•			
8063U	Postmortem Toxicology - Basic to Expanded Upgrade, Urine (Forensic)					•			
8062B	Postmortem Toxicology - Expanded w/o Alcohol, Blood (Forensic)					•			
8062U	Postmortem Toxicology - Expanded w/o Alcohol, Urine (Forensic)					•			
8042B	Postmortem Toxicology - Expanded with Vitreous Alcohol Confirmation, Blood (Forensic)					•			



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Test Code	Test Name	Test Name	Method / CPT Code	Specimen Req.	Stability	Scope	Units	Reference Comments	Discontinue
10052B	Postmortem Toxicology - Expanded with Vitreous Alcohol Confirmation, Blood (Forensic) (CSA)					•			
8057B	Postmortem Toxicology - Expanded with Vitreous Alcohol Confirmation, Blood - University of MI (CSA)					•			
8052B	Postmortem Toxicology - Expanded, Blood (Forensic)					•			
8052SP	Postmortem Toxicology - Expanded, Serum/Plasma (Forensic)					•			
8052U	Postmortem Toxicology - Expanded, Urine (Forensic)					•			
9566B	Postmortem Toxicology - Synthetic Cannabinoids Screen (Add-On), Blood		•	•	•	•		•	
8152B	ProofPOSITIVE® Drug Impaired Driving/DRE Toxicology Expanded Drug Screen Add-On, Blood (Forensic)					•			
5960B	Synthetic Cannabinoids Confirmation, Blood (Forensic)			•	•	•		•	
9560B	Synthetic Cannabinoids Screen, Blood (Forensic)		•	•	•	•		•	



## Test Updates

### Test Changes

#### 8756B Bath Salts and Stimulants Designer Drugs - Expanded, Blood

Summary of Changes: Scope of Analysis was changed.  
7-Hydroxymitragynine was removed.

Scope of Analysis: LC/TOF-MS (80304): Cathinone, BZP, Methcathinone, Methylone, 3-FMC,  
Method (CPT Code) Flephedrone, Amphetamine, Ethylone, MDA, Methamphetamine, MDMA,  
Methedrone, O-Desmethyltramadol, Buphedrone, PMA, 2C-N, Butylone, 2C-H,  
MDEA, MBZP, Mephedrone, DMAA, 4-MEC, Pentedrone, mCPP, Methoxetamine,  
Pentylone, alpha-PVP, 2C-C, 3,4-DMMC, MDPV, 2C-B, TFMPP, DOM, DOB, 2C-I,  
DBZP, 2C-T-2, Pyrovalerone, 2C-E, Mitragynine, 2C-T-7, Naphyrone, 2C-P,  
Phenazepam

#### 8756SP Bath Salts and Stimulants Designer Drugs - Expanded, Serum/Plasma

Summary of Changes: Scope of Analysis was changed.  
7-Hydroxymitragynine was removed.

Scope of Analysis: LC/TOF-MS (80304): Cathinone, BZP, Methcathinone, Methylone, 3-FMC,  
Method (CPT Code) Flephedrone, Amphetamine, Ethylone, MDA, Methamphetamine, MDMA,  
Methedrone, O-Desmethyltramadol, Buphedrone, PMA, 2C-N, Butylone, 2C-H,  
MDEA, MBZP, Mephedrone, DMAA, 4-MEC, Pentedrone, mCPP, Methoxetamine,  
Pentylone, alpha-PVP, 2C-C, 3,4-DMMC, MDPV, 2C-B, TFMPP, DOM, DOB, 2C-I,  
DBZP, 2C-T-2, Pyrovalerone, 2C-E, Mitragynine, 2C-T-7, Naphyrone, 2C-P,  
Phenazepam

#### 8756U Bath Salts and Stimulants Designer Drugs - Expanded, Urine

Summary of Changes: Scope of Analysis was changed.  
7-Hydroxymitragynine was removed.

Scope of Analysis: LC/TOF-MS (80304): Cathinone, BZP, Methcathinone, Methylone, 3-FMC,  
Method (CPT Code) Flephedrone, Amphetamine, Ethylone, MDA, Methamphetamine, MDMA,  
Methedrone, O-Desmethyltramadol, Buphedrone, PMA, 2C-N, Butylone, 2C-H,  
MDEA, MBZP, Mephedrone, DMAA, 4-MEC, Pentedrone, mCPP, Methoxetamine,  
Pentylone, alpha-PVP, 2C-C, 3,4-DMMC, MDPV, 2C-B, TFMPP, DOM, DOB, 2C-I,  
DBZP, 2C-T-2, Pyrovalerone, 2C-E, Mitragynine, 2C-T-7, Naphyrone, 2C-P,  
Phenazepam

#### 8075B Drug Impaired Driving/DRE Toxicology Expanded Drug Screen Add-On, Blood (Forensic)

Summary of Changes: Scope of Analysis was changed.  
7-Hydroxymitragynine was removed.

Scope of Analysis:  
Method (CPT Code)

#### 8075SP Drug Impaired Driving/DRE Toxicology Expanded Drug Screen Add-On, Serum/Plasma (Forensic)

Summary of Changes: Scope of Analysis was changed.  
7-Hydroxymitragynine was removed.



# Test Updates

## Test Changes

Scope of Analysis:  
Method (CPT Code)

### 8075U Drug Impaired Driving/DRE Toxicology Expanded Drug Screen Add-On, Urine (Forensic)

Summary of Changes: Scope of Analysis was changed.  
7-Hydroxymitragynine was removed.

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Scope of Analysis:  
Method (CPT Code)

### 1876B Drug Screen - Expanded, Blood

Summary of Changes: Scope of Analysis was changed.  
7-Hydroxymitragynine was removed.

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Scope of Analysis:  
Method (CPT Code)

### 1876SP Drug Screen - Expanded, Serum/Plasma

Summary of Changes: Scope of Analysis was changed.  
7-Hydroxymitragynine was removed.

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Scope of Analysis:  
Method (CPT Code)

### 1876U Drug Screen - Expanded, Urine

Summary of Changes: Scope of Analysis was changed.  
7-Hydroxymitragynine was removed.

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Scope of Analysis:  
Method (CPT Code)

### 3078U Mitragynine (Qualitative), Urine

Summary of Changes: Test Name was changed.  
Stability was changed.  
Scope of Analysis was changed.  
Reference Comment was changed.  
7-Hydroxymitragynine was removed.

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Stability: Room Temperature: 30 day(s)  
Refrigerated: 30 day(s)  
Frozen (-20 °C): 30 day(s)

Scope of Analysis: LC-MS/MS (80323): Mitragynine  
Method (CPT Code)



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### Test Changes

Compound Name	Units	Reference Comment
Mitragynine	ng/mL	Mitragynine is an alkaloid found in the plant Kratom which originates from Asia. The leaves of plant are consumed for their stimulant and analgesic effects and these effects are attributed to mitragynine. Plant extracts are sold for their medicinal use and may be subject to abuse. Some Kratom materials have also been reported to contain O-desmethyldramadol presumably from exogenous sources.

#### 54342B Mitragynine, Phenazepam Confirmation (Qualitative) (Drug Impaired Driving/DRE Toxicology), Blood (Forensic)

Summary of Changes: Test Name was changed.  
Specimen Requirements were changed.  
Stability was changed.  
Scope of Analysis was changed.  
7-Hydroxymitragynine was removed.

Specimen Requirements: 2 mL Blood  
Transport Temperature: Refrigerated  
Specimen Container: Lavender top tube (EDTA)  
Light Protection: Not Required  
Special Handling: None  
Rejection Criteria: None  
Stability: Room Temperature: 14 day(s)  
Refrigerated: 30 day(s)  
Frozen (-20 °C): 30 day(s)  
Scope of Analysis: LC-MS/MS (80323): Phenazepam, Mitragynine  
Method (CPT Code)

#### 54342SP Mitragynine, Phenazepam Confirmation (Qualitative) (Drug Impaired Driving/DRE Toxicology), Serum/Plasma (Forensic)

Summary of Changes: Test Name was changed.  
Specimen Requirements were changed.  
Specimen Requirements (Special Handling) were changed.  
Stability was changed.  
Scope of Analysis was changed.  
7-Hydroxymitragynine was removed.



## Test Updates

### Test Changes

Specimen Requirements: 2 mL Serum or Plasma  
Transport Temperature: Refrigerated  
Specimen Container: Plastic container (preservative-free)  
Light Protection: Not Required  
Special Handling: Serum: Collect sample in Red top tube  
Plasma: Collect sample in Lavender top tube (EDTA) or Pink top tube.  
Promptly centrifuge and separate Serum or Plasma into a plastic screw capped vial using approved guidelines.  
Rejection Criteria: Polymer gel separation tube (SST or PST).  
Stability: Room Temperature: 30 day(s)  
Refrigerated: 30 day(s)  
Frozen (-20 °C): 30 day(s)  
Scope of Analysis: LC-MS/MS (80323): Phenazepam, Mitragynine  
Method (CPT Code)

#### **54342U Mitragynine, Phenazepam Confirmation (Qualitative) (Drug Impaired Driving/DRE Toxicology), Urine (Forensic)**

Summary of Changes: Test Name was changed.  
Specimen Requirements were changed.  
Stability was changed.  
Scope of Analysis was changed.  
7-Hydroxymitragynine was removed.

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Specimen Requirements: 2 mL Urine  
Transport Temperature: Refrigerated  
Specimen Container: Plastic container (preservative-free)  
Light Protection: Not Required  
Special Handling: None  
Rejection Criteria: None  
Stability: Room Temperature: 30 day(s)  
Refrigerated: 30 day(s)  
Frozen (-20 °C): 30 day(s)  
Scope of Analysis: LC-MS/MS (80323): Phenazepam, Mitragynine  
Method (CPT Code)

#### **52381B Mitragynine, Phenazepam Confirmation (Qualitative), Blood**

Summary of Changes: Test Name was changed.  
Specimen Requirements were changed.  
Stability was changed.  
Scope of Analysis was changed.  
Reference Comment was changed.  
7-Hydroxymitragynine was removed.

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## Test Updates

### Test Changes

Specimen Requirements: 2 mL Blood  
 Transport Temperature: Refrigerated  
 Specimen Container: Lavender top tube (EDTA)  
 Light Protection: Not Required  
 Special Handling: None  
 Rejection Criteria: None  
 Stability: Room Temperature: 14 day(s)  
 Refrigerated: 30 day(s)  
 Frozen (-20 °C): 30 day(s)  
 Scope of Analysis: LC-MS/MS (80323): Phenazepam, Mitragynine  
 Method (CPT Code)

Compound Name	Units	Reference Comment
Mitragynine	ng/mL	Mitragynine is an alkaloid found in the plant Kratom which originates from Asia. The leaves of plant are consumed for their stimulant and analgesic effects and these effects are attributed to mitragynine. Plant extracts are sold for their medicinal use and may be subject to abuse. Some Kratom materials have also been reported to contain O-desmethyiltramadol presumably from exogenous sources.

#### 52381SP Mitragynine, Phenazepam Confirmation (Qualitative), Serum/Plasma

Summary of Changes: Test Name was changed.  
 Specimen Requirements were changed.  
 Specimen Requirements (Special Handling) were changed.  
 Stability was changed.  
 Scope of Analysis was changed.  
 Reference Comment was changed.  
 7-Hydroxymitragynine was removed.

Specimen Requirements: 2 mL Serum or Plasma  
 Transport Temperature: Refrigerated  
 Specimen Container: Plastic container (preservative-free)  
 Light Protection: Not Required  
 Special Handling: Serum: Collect sample in Red top tube  
 Plasma: Collect sample in Lavender top tube (EDTA) or Pink top tube.  
 Promptly centrifuge and separate Serum or Plasma into a plastic screw capped vial using approved guidelines.  
 Rejection Criteria: Polymer gel separation tube (SST or PST).  
 Stability: Room Temperature: 30 day(s)  
 Refrigerated: 30 day(s)  
 Frozen (-20 °C): 30 day(s)





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### Test Changes

Scope of Analysis: LC-MS/MS (80323): Phenazepam, Mitragynine  
Method (CPT Code)

Compound Name	Units	Reference Comment
Mitragynine	ng/mL	Mitragynine is an alkaloid found in the plant Kratom which originates from Asia. The leaves of plant are consumed for their stimulant and analgesic effects and these effects are attributed to mitragynine. Plant extracts are sold for their medicinal use and may be subject to abuse. Some Kratom materials have also been reported to contain O-desmethyltramadol presumably from exogenous sources.

#### 52381U Mitragynine, Phenazepam Confirmation (Qualitative), Urine

Summary of Changes: Test Name was changed.  
Specimen Requirements were changed.  
Stability was changed.  
Scope of Analysis was changed.  
Reference Comment was changed.  
7-Hydroxymitragynine was removed.

Specimen Requirements: 2 mL Urine  
Transport Temperature: Refrigerated  
Specimen Container: Plastic container (preservative-free)  
Light Protection: Not Required  
Special Handling: None  
Rejection Criteria: None  
Stability: Room Temperature: 30 day(s)  
Refrigerated: 30 day(s)  
Frozen (-20 °C): 30 day(s)  
Scope of Analysis: LC-MS/MS (80323): Phenazepam, Mitragynine  
Method (CPT Code)

Compound Name	Units	Reference Comment
Mitragynine	ng/mL	Mitragynine is an alkaloid found in the plant Kratom which originates from Asia. The leaves of plant are consumed for their stimulant and analgesic effects and these effects are attributed to mitragynine. Plant extracts are sold for their medicinal use and may be subject to abuse. Some Kratom materials have also been reported to contain O-desmethyltramadol presumably from exogenous sources.

#### 8063B Postmortem Toxicology - Basic to Expanded Upgrade, Blood (Forensic)



## Test Updates

### Test Changes

Summary of Changes: Scope of Analysis was changed.  
7-Hydroxymitragynine was removed.

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Scope of Analysis:  
Method (CPT Code)

#### **8063SP Postmortem Toxicology - Basic to Expanded Upgrade, Serum/Plasma (Forensic)**

Summary of Changes: Scope of Analysis was changed.  
7-Hydroxymitragynine was removed.

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Scope of Analysis:  
Method (CPT Code)

#### **8063U Postmortem Toxicology - Basic to Expanded Upgrade, Urine (Forensic)**

Summary of Changes: Scope of Analysis was changed.  
7-Hydroxymitragynine was removed.

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Scope of Analysis:  
Method (CPT Code)

#### **8062B Postmortem Toxicology - Expanded w/o Alcohol, Blood (Forensic)**

Summary of Changes: Scope of Analysis was changed.  
7-Hydroxymitragynine was removed.

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Scope of Analysis:  
Method (CPT Code)

#### **8062U Postmortem Toxicology - Expanded w/o Alcohol, Urine (Forensic)**

Summary of Changes: Scope of Analysis was changed.  
7-Hydroxymitragynine was removed.

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Scope of Analysis:  
Method (CPT Code)

#### **10052B Postmortem Toxicology - Expanded with Vitreous Alcohol Confirmation, Blood (Forensic) (CSA)**

Summary of Changes: Scope of Analysis was changed.  
7-Hydroxymitragynine was removed.

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Scope of Analysis:  
Method (CPT Code)

#### **8042B Postmortem Toxicology - Expanded with Vitreous Alcohol Confirmation, Blood (Forensic)**

Summary of Changes: Scope of Analysis was changed.  
7-Hydroxymitragynine was removed.

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## Test Updates

### Test Changes

Scope of Analysis:  
Method (CPT Code)

#### **8057B Postmortem Toxicology - Expanded with Vitreous Alcohol Confirmation, Blood - University of MI (CSA)**

Summary of Changes: Scope of Analysis was changed.  
7-Hydroxymitragynine was removed.

Scope of Analysis:  
Method (CPT Code)

#### **8052B Postmortem Toxicology - Expanded, Blood (Forensic)**

Summary of Changes: Scope of Analysis was changed.  
7-Hydroxymitragynine was removed.

Scope of Analysis:  
Method (CPT Code)

#### **8052SP Postmortem Toxicology - Expanded, Serum/Plasma (Forensic)**

Summary of Changes: Scope of Analysis was changed.  
7-Hydroxymitragynine was removed.

Scope of Analysis:  
Method (CPT Code)

#### **8052U Postmortem Toxicology - Expanded, Urine (Forensic)**

Summary of Changes: Scope of Analysis was changed.  
7-Hydroxymitragynine was removed.

Scope of Analysis:  
Method (CPT Code)

#### **9566B Postmortem Toxicology - Synthetic Cannabinoids Screen (Add-On), Blood**

Summary of Changes: Specimen Requirements were changed.  
Specimen Requirements (Rejection Criteria) were changed.  
Stability was changed.  
Scope of Analysis was changed.  
MN-18, ADBICA, 5F-MN-18, 5F-ADBICA, MN-25, FUB-PB-22, AB-FUBINACA, BB-22, ADB-FUBINACA, PB-22, AB-PINACA, 5F-PB-22, ADB-PINACA, 5F-ADB-PINACA, FUBIMINA, AB-CHMINACA, THJ-2201, THJ-018, MDMB-CHMINACA, APINACA (AKB-48), 5F-APINACA (5F-AKB-48), FUB-AKB-48, 5F-AB-001, APICA and 5F-APICA were added.



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### Test Changes

Reference Comment was changed.  
Methods/CPT Codes were changed [LC-MS/MS (80304), LC-MS/MS (80304)]  
A-796260, AM-1248, AM-2233, AM-694, JWH-018 5-chloropentyl, JWH-019, JWH-022, JWH-073, JWH-200, JWH-203, JWH-250 and RCS-4, RCS-8 were removed.

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Specimen Requirements: 6 mL Blood  
Transport Temperature: Refrigerated  
Specimen Container: Lavender top tube (EDTA)  
Light Protection: Not Required  
Special Handling: None  
Rejection Criteria: Received Room Temperature. Green top tube (Sodium Heparin).  
Stability: Room Temperature: 2 day(s)  
Refrigerated: 14 day(s)  
Frozen (-20 °C): 30 day(s)  
Scope of Analysis: LC-MS/MS (80304): MN-18, 5F-MN-18, MN-25, FUB-PB-22, BB-22, PB-22, 5F-PB-22, FUBIMINA, THJ-2201, THJ-018, AM-2201, XLR-11, JWH-018, JWH-081, JWH-122, UR-144, JWH-210, MDMB-CHMINACA, APINACA (AKB-48), 5F-APINACA (5F-AKB-48), FUB-AKB-48, 5F-AB-001, APICA, 5F-APICA  
Method (CPT Code) LC-MS/MS (80304): ADBICA, 5F-ADBICA, AB-FUBINACA, ADB-FUBINACA, AB-PINACA, ADB-PINACA, 5F-ADB-PINACA, AB-CHMINACA

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Compound Name	Units	Reference Comment
MN-18	ng/mL	MN-18 is one of many synthetic cannabinoid drugs. The drug is typically sprayed on botanical material and smoked, although it can be ingested in liquid or powder form. No studies have been performed to evaluate the pharmacological effects of this compound.
ADBICA	ng/mL	ADBICA is one of many synthetic cannabinoid drugs. The drug is typically sprayed on botanical material and smoked, although it can be ingested in liquid or powder form. No studies have been performed to evaluate the pharmacological effects of this compound.
5F-MN-18	ng/mL	5F-MN-18 is one of many synthetic cannabinoid drugs. The drug is typically sprayed on botanical material and smoked, although it can be ingested in liquid or powder form. No studies have been performed to evaluate the pharmacological effects of this compound.
5F-ADBICA	ng/mL	5F-ADBICA is one of many synthetic cannabinoid drugs. The drug is typically sprayed on botanical material and smoked, although it can be ingested in liquid or powder form. No studies have been performed to evaluate the pharmacological effects of this compound.



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### Test Changes

Compound Name	Units	Reference Comment
MN-25	ng/mL	MN-25 is one of many synthetic cannabinoid drugs. The drug is typically sprayed on botanical material and smoked, although it can be ingested in liquid or powder form. It binds to the same brain receptor as THC, the active component of marijuana. No studies have been performed to evaluate the pharmacological effects of this compound.
AB-FUBINACA	ng/mL	AB-FUBINACA is one of many synthetic cannabinoid drugs. The drug is typically sprayed on botanical material and smoked, although it can be ingested in liquid or powder form. AB-FUBINACA binds to the same brain receptor as THC, the active component of marijuana, and has been shown to produce similar pharmacological effects.
FUB-PB-22	ng/mL	FUB-PB-22 is one of many synthetic cannabinoid drugs. The drug is typically sprayed on botanical material and smoked, although it can be ingested in liquid or powder form. No studies have been performed to evaluate the pharmacological effects of this compound.
ADB-FUBINACA	ng/mL	ADB-FUBINACA is one of many synthetic cannabinoid drugs. The drug is typically sprayed on botanical material and smoked, although it can be ingested in liquid or powder form. ADB-FUBINACA binds to the same brain receptor as THC, the active component of marijuana, and has been shown to produce similar pharmacological effects.
BB-22	ng/mL	BB-22 is one of many synthetic cannabinoid drugs. The drug is typically sprayed on botanical material and smoked, although it can be ingested in liquid or powder form. No studies have been performed to evaluate the pharmacological effects of this compound.  Positive effects reported by users include euphoria, relaxation, and feelings of joy and well being. Reported negative effects include anxiety, paranoia, dry mouth and hallucinations.
AB-PINACA	ng/mL	AB-PINACA is one of many synthetic cannabinoid drugs. The drug is typically sprayed on botanical material and smoked, although it can be ingested in liquid or powder form. No studies have been performed to evaluate the pharmacological effects of this compound.



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Compound Name	Units	Reference Comment
PB-22	ng/mL	PB-22 is one of many synthetic cannabinoid drugs. The drug is typically sprayed on botanical material and smoked, although it can be ingested in liquid or powder form. No studies have been performed to evaluate the pharmacological effects of this compound.
ADB-PINACA	ng/mL	ADB-PINACA is one of many synthetic cannabinoid drugs. The drug is typically sprayed on botanical material and smoked, although it can be ingested in liquid or powder form. No studies have been performed to evaluate the pharmacological effects of this compound.
5F-PB-22	ng/mL	5F-PB-22 is one of many synthetic cannabinoid drugs. The drug is typically sprayed on botanical material and smoked, although it can be ingested in liquid or powder form. No studies have been performed to evaluate the pharmacological effects of this compound.
5F-ADB-PINACA	ng/mL	5F-ADB-PINACA is one of many synthetic cannabinoid drugs. The drug is typically sprayed on botanical material and smoked, although it can be ingested in liquid or powder form. No studies have been performed to evaluate the pharmacological effects of this compound.
FUBIMINA	ng/mL	FUBIMINA is one of many synthetic cannabinoid drugs. The drug is typically sprayed on botanical material and smoked, although it can be ingested in liquid or powder form. No studies have been performed to evaluate the pharmacological effects of this compound.
AB-CHMINACA	ng/mL	AB-CHMINACA is one of many synthetic cannabinoid drugs. The drug is typically sprayed on botanical material and smoked, although it can be ingested in liquid or powder form. No studies have been performed to evaluate the pharmacological effects of this compound.
THJ-2201	ng/mL	THJ-2201 is one of many synthetic cannabinoid drugs. The drug is typically sprayed on botanical material and smoked, although it can be ingested in liquid or powder form. No studies have been performed to evaluate the pharmacological effects of this compound.
THJ-018	ng/mL	THJ-018 is one of many synthetic cannabinoid drugs. The drug is typically sprayed on botanical material and smoked, although it can be ingested in liquid or powder form. No studies have been performed to evaluate the pharmacological effects of this compound.



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Compound Name	Units	Reference Comment
AM-2201	ng/mL	<p>AM-2201, a synthetic cannabinoid, has been identified in products sold as 'herbal incense'. These products may be used as an alternative to cannabis.</p> <p>Whole blood concentrations of 0.31 - 4.6 ng/mL have been reported (N=6).</p>
XLR-11	ng/mL	<p>XLR-11 a synthetic cannabinoid, has been identified in products sold as 'herbal incense'. These products may be used as an alternative to cannabis.</p> <p>A serum concentration of 35 ng/mL was reported in a patient admitted to the hospital with nausea, vomiting and abdominal pain. XLR-11 has been associated with acute kidney injury.</p> <p>The whole blood to serum ratio of this analyte is not known.</p>
JWH-018	ng/mL	<p>JWH-018, a synthetic cannabinoid, has been identified in products sold as 'herbal incense'. These products may be used as an alternative to cannabis.</p> <p>Two volunteers smoked cigarettes containing 100 mg or 150 mg of an herbal incense containing an unknown amount of JWH-018. Peak serum concentrations were 8.1 and 10.2 ng/mL, respectively, 5 minutes post-dose. Serum concentrations in both volunteers were &lt;0.5 ng/mL 3 hours post dose.</p> <p>The whole blood to serum ratio of this analyte is not known.</p>
JWH-081	ng/mL	<p>JWH-081 a synthetic cannabinoid, has been identified in products sold as 'herbal incense'. These products may be used as an alternative to cannabis.</p> <p>Six patients admitted to emergency departments had JWH-210 serum concentrations of 0.25 - 42 ng/mL; the concentration was greater than 1 ng/mL in 5 cases.</p> <p>The whole blood to serum ratio of this analyte is not known.</p>



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## Test Updates

### Test Changes

Compound Name	Units	Reference Comment
JWH-122	ng/mL	<p>JWH-122, a synthetic cannabinoid, has been identified in products sold as 'herbal incense'. These products may be used as an alternative to cannabis.</p> <p>Eleven patients admitted to emergency departments had JWH-122 serum concentrations of 0.17 - 40 ng/mL; the concentration was less than 1 ng/mL in 6 cases.</p> <p>The whole blood to serum ratio of this analyte is not known.</p>
UR-144	ng/mL	<p>UR-144 a synthetic cannabinoid, has been identified in products sold as 'herbal incense'. These products may be used as an alternative to cannabis.</p> <p>JWH-081 a synthetic cannabinoid, has been identified in products sold as 'herbal incense'. These products may be used as an alternative to cannabis.</p> <p>A serum concentration of 6 ng/mL was reported in a patient admitted to the hospital with nausea, vomiting and abdominal pain.</p> <p>The whole blood to serum ratio of this analyte is not known.</p>
JWH-210	ng/mL	<p>JWH-210, a synthetic cannabinoid, has been identified in products sold as 'herbal incense'. These products may be used as an alternative to cannabis.</p> <p>Eleven patients admitted to emergency departments had JWH-210 serum concentrations of 0.2 - 190 ng/mL; the concentration was greater than 1 ng/mL in 9 cases.</p> <p>The whole blood to serum ratio of this analyte is not known.</p>
MDMB-CHMINACA	ng/mL	<p>MDMB-CHMINACA is one of many synthetic cannabinoid drugs.</p> <p>The drug is typically sprayed on botanical material and smoked, although it can be ingested in liquid or powder form. No studies have been performed to evaluate the pharmacological effects of this compound.</p>





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## Test Updates

### Test Changes

Compound Name	Units	Reference Comment
APINACA (AKB-48)	ng/mL	<p>APINACA is one of many synthetic cannabinoid drugs. The drug is typically sprayed on botanical material and smoked, although it can be ingested in liquid or powder form. No studies have been performed to evaluate the pharmacological effects of this compound.</p> <p>Positive effects reported by users include euphoria, relaxation, and feelings of joy and well being. Reported negative effects include anxiety, paranoia, dry mouth and hunger.</p>
5F-APINACA (5F-AKB-48)	ng/mL	<p>5F-APINACA is one of many synthetic cannabinoid drugs. The drug is typically sprayed on botanical material and smoked, although it can be ingested in liquid or powder form. No studies have been performed to evaluate the pharmacological effects of this compound.</p>
FUB-AKB-48	ng/mL	<p>FUB-AKB-48 is one of many synthetic cannabinoid drugs. The drug is typically sprayed on botanical material and smoked, although it can be ingested in liquid or powder form. No studies have been performed to evaluate the pharmacological effects of this compound.</p>
5F-AB-001	ng/mL	<p>5F-AB-001 is one of many synthetic cannabinoid drugs. The drug is typically sprayed on botanical material and smoked, although it can be ingested in liquid or powder form. No studies have been performed to evaluate the pharmacological effects of this compound.</p>
APICA	ng/mL	<p>APICA is one of many synthetic cannabinoid drugs. The drug is typically sprayed on botanical material and smoked, although it can be ingested in liquid or powder form. No studies have been performed to evaluate the pharmacological effects of this compound.</p>
5F-APICA	ng/mL	<p>5F-APICA is one of many synthetic cannabinoid drugs. The drug is typically sprayed on botanical material and smoked, although it can be ingested in liquid or powder form. No studies have been performed to evaluate the pharmacological effects of this compound.</p>

#### 8152B ProofPOSITIVE® Drug Impaired Driving/DRE Toxicology Expanded Drug Screen Add-On, Blood (Forensic)

Summary of Changes: Scope of Analysis was changed.  
7-Hydroxymitragynine was removed.



## Test Updates

### Test Changes

Scope of Analysis:  
Method (CPT Code)

#### 5960B Synthetic Cannabinoids Confirmation, Blood (Forensic)

Summary of Changes: Specimen Requirements were changed.  
Stability was changed.  
Scope of Analysis was changed.  
Reference Comment was changed.  
A-796260, AM-1248, AM-2233, AM-694, JWH-018 5-chloropentyl, JWH-019, JWH-022, JWH-073, JWH-200, JWH-203, JWH-250 and RCS-4, RCS-8 were removed.

Specimen Requirements: 2 mL Blood  
Transport Temperature: Refrigerated  
Specimen Container: Lavender top tube (EDTA)  
Light Protection: Not Required  
Special Handling: None  
Rejection Criteria: Green top tube (Sodium Heparin).  
Stability: Room Temperature: 30 day(s)  
Refrigerated: 30 day(s)  
Frozen (-20 °C): 30 day(s)  
Scope of Analysis: LC-MS/MS (80352): AM-2201, XLR-11, JWH-018, JWH-081, JWH-122, UR-144,  
Method (CPT Code) JWH-210

Compound Name	Units	Reference Comment
AM-2201	ng/mL	AM-2201, a synthetic cannabinoid, has been identified in products sold as 'herbal incense'. These products may be used as an alternative to cannabis.  Whole blood concentrations of 0.31 - 4.6 ng/mL have been reported (N=6).
XLR-11	ng/mL	XLR-11 a synthetic cannabinoid, has been identified in products sold as 'herbal incense'. These products may be used as an alternative to cannabis.  A serum concentration of 35 ng/mL was reported in a patient admitted to the hospital with nausea, vomiting and abdominal pain. XLR-11 has been associated with acute kidney injury.  The whole blood to serum ratio of this analyte is not known.



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### Test Changes

Compound Name	Units	Reference Comment
JWH-018	ng/mL	<p>JWH-018, a synthetic cannabinoid, has been identified in products sold as 'herbal incense'. These products may be used as an alternative to cannabis.</p> <p>Two volunteers smoked cigarettes containing 100 mg or 150 mg of an herbal incense containing an unknown amount of JWH-018. Peak serum concentrations were 8.1 and 10.2 ng/mL, respectively, 5 minutes post-dose. Serum concentrations in both volunteers were &lt;0.5 ng/mL 3 hours post dose.</p> <p>The whole blood to serum ratio of this analyte is not known.</p>
JWH-081	ng/mL	<p>JWH-081 a synthetic cannabinoid, has been identified in products sold as 'herbal incense'. These products may be used as an alternative to cannabis.</p> <p>Six patients admitted to emergency departments had JWH-210 serum concentrations of 0.25 - 42 ng/mL; the concentration was greater than 1 ng/mL in 5 cases.</p> <p>The whole blood to serum ratio of this analyte is not known.</p>
JWH-122	ng/mL	<p>JWH-122, a synthetic cannabinoid, has been identified in products sold as 'herbal incense'. These products may be used as an alternative to cannabis.</p> <p>Eleven patients admitted to emergency departments had JWH-122 serum concentrations of 0.17 - 40 ng/mL; the concentration was less than 1 ng/mL in 6 cases.</p> <p>The whole blood to serum ratio of this analyte is not known.</p>
UR-144	ng/mL	<p>UR-144 a synthetic cannabinoid, has been identified in products sold as 'herbal incense'. These products may be used as an alternative to cannabis.</p> <p>JWH-081 a synthetic cannabinoid, has been identified in products sold as 'herbal incense'. These products may be used as an alternative to cannabis.</p>



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## Test Updates

### Test Changes

Compound Name	Units	Reference Comment
JWH-210	ng/mL	<p>A serum concentration of 6 ng/mL was reported in a patient admitted to the hospital with nausea, vomiting and abdominal pain.</p> <p>The whole blood to serum ratio of this analyte is not known.</p> <p>JWH-210, a synthetic cannabinoid, has been identified in products sold as 'herbal incense'. These products may be used as an alternative to cannabis.</p> <p>Eleven patients admitted to emergency departments had JWH-210 serum concentrations of 0.2 - 190 ng/mL; the concentration was greater than 1 ng/mL in 9 cases.</p> <p>The whole blood to serum ratio of this analyte is not known.</p>

#### 9560B Synthetic Cannabinoids Screen, Blood (Forensic)

Summary of Changes: Specimen Requirements were changed.  
 Specimen Requirements (Rejection Criteria) were changed.  
 Stability was changed.  
 Scope of Analysis was changed.  
 MN-18, ADBICA, 5F-MN-18, MN-25, 5F-ADBICA, FUB-PB-22, AB-FUBINACA, BB-22, ADB-FUBINACA, AB-PINACA, PB-22, 5F-PB-22, ADB-PINACA, FUBIMINA, 5F-ADB-PINACA, AB-CHMINACA, THJ-2201, THJ-018, MDMB-CHMINACA, APINACA (AKB-48), 5F-APINACA (5F-AKB-48), FUB-AKB-48, 5F-AB-001, APICA and 5F-APICA were added.  
 Reference Comment was changed.  
 Methods/CPT Codes were changed [LC-MS/MS (80304), LC-MS/MS (80304)]  
 A-796260, AM-1248, AM-2233, AM-694, JWH-018 5-chloropentyl, JWH-019, JWH-022, JWH-073, JWH-200, JWH-203, JWH-250 and RCS-4, RCS-8 were removed.

Specimen Requirements: 6 mL Blood  
 Transport Temperature: Refrigerated  
 Specimen Container: Lavender top tube (EDTA)  
 Light Protection: Not Required  
 Special Handling: None  
 Rejection Criteria: Received Room Temperature. Green top tube (Sodium Heparin).  
 Stability: Room Temperature: 2 day(s)  
 Refrigerated: 14 day(s)  
 Frozen (-20 °C): 30 day(s)



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## Test Updates

### Test Changes

Scope of Analysis: LC-MS/MS (80304): MN-18, 5F-MN-18, MN-25, FUB-PB-22, BB-22, PB-22, 5F-PB-22, FUBIMINA, THJ-2201, THJ-018, AM-2201, XLR-11, JWH-018, JWH-081, JWH-122, UR-144, JWH-210, MDMB-CHMINACA, APINACA (AKB-48), 5F-APINACA (5F-AKB-48), FUB-AKB-48, 5F-AB-001, APICA, 5F-APICA  
Method (CPT Code) LC-MS/MS (80304): ADBICA, 5F-ADBICA, AB-FUBINACA, ADB-FUBINACA, AB-PINACA, ADB-PINACA, 5F-ADB-PINACA, AB-CHMINACA

Compound Name	Units	Reference Comment
MN-18	ng/mL	MN-18 is one of many synthetic cannabinoid drugs. The drug is typically sprayed on botanical material and smoked, although it can be ingested in liquid or powder form. No studies have been performed to evaluate the pharmacological effects of this compound.
ADBICA	ng/mL	ADBICA is one of many synthetic cannabinoid drugs. The drug is typically sprayed on botanical material and smoked, although it can be ingested in liquid or powder form. No studies have been performed to evaluate the pharmacological effects of this compound.
5F-MN-18	ng/mL	5F-MN-18 is one of many synthetic cannabinoid drugs. The drug is typically sprayed on botanical material and smoked, although it can be ingested in liquid or powder form. No studies have been performed to evaluate the pharmacological effects of this compound.
5F-ADBICA	ng/mL	5F-ADBICA is one of many synthetic cannabinoid drugs. The drug is typically sprayed on botanical material and smoked, although it can be ingested in liquid or powder form. No studies have been performed to evaluate the pharmacological effects of this compound.
MN-25	ng/mL	MN-25 is one of many synthetic cannabinoid drugs. The drug is typically sprayed on botanical material and smoked, although it can be ingested in liquid or powder form. It binds to the same brain receptor as THC, the active component of marijuana. No studies have been performed to evaluate the pharmacological effects of this compound.
AB-FUBINACA	ng/mL	AB-FUBINACA is one of many synthetic cannabinoid drugs. The drug is typically sprayed on botanical material and smoked, although it can be ingested in liquid or powder form. AB-FUBINACA binds to the same brain receptor as THC, the active component of marijuana, and has been shown to produce similar pharmacological effects.



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### Test Changes

Compound Name	Units	Reference Comment
FUB-PB-22	ng/mL	FUB-PB-22 is one of many synthetic cannabinoid drugs. The drug is typically sprayed on botanical material and smoked, although it can be ingested in liquid or powder form. No studies have been performed to evaluate the pharmacological effects of this compound.
ADB-FUBINACA	ng/mL	ADB-FUBINACA is one of many synthetic cannabinoid drugs. The drug is typically sprayed on botanical material and smoked, although it can be ingested in liquid or powder form. ADB-FUBINACA binds to the same brain receptor as THC, the active component of marijuana, and has been shown to produce similar pharmacological effects.
BB-22	ng/mL	BB-22 is one of many synthetic cannabinoid drugs. The drug is typically sprayed on botanical material and smoked, although it can be ingested in liquid or powder form. No studies have been performed to evaluate the pharmacological effects of this compound.  Positive effects reported by users include euphoria, relaxation, and feelings of joy and well being. Reported negative effects include anxiety, paranoia, dry mouth and hallucinations.
AB-PINACA	ng/mL	AB-PINACA is one of many synthetic cannabinoid drugs. The drug is typically sprayed on botanical material and smoked, although it can be ingested in liquid or powder form. No studies have been performed to evaluate the pharmacological effects of this compound.
PB-22	ng/mL	PB-22 is one of many synthetic cannabinoid drugs. The drug is typically sprayed on botanical material and smoked, although it can be ingested in liquid or powder form. No studies have been performed to evaluate the pharmacological effects of this compound.
ADB-PINACA	ng/mL	ADB-PINACA is one of many synthetic cannabinoid drugs. The drug is typically sprayed on botanical material and smoked, although it can be ingested in liquid or powder form. No studies have been performed to evaluate the pharmacological effects of this compound.
5F-PB-22	ng/mL	5F-PB-22 is one of many synthetic cannabinoid drugs. The drug is typically sprayed on botanical material and smoked, although it can be ingested in liquid or powder form. No studies have been performed to evaluate the pharmacological effects of this compound.



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### Test Changes

Compound Name	Units	Reference Comment
5F-ADB-PINACA	ng/mL	5F-ADB-PINACA is one of many synthetic cannabinoid drugs. The drug is typically sprayed on botanical material and smoked, although it can be ingested in liquid or powder form. No studies have been performed to evaluate the pharmacological effects of this compound.
FUBIMINA	ng/mL	FUBIMINA is one of many synthetic cannabinoid drugs. The drug is typically sprayed on botanical material and smoked, although it can be ingested in liquid or powder form. No studies have been performed to evaluate the pharmacological effects of this compound.
AB-CHMINACA	ng/mL	AB-CHMINACA is one of many synthetic cannabinoid drugs. The drug is typically sprayed on botanical material and smoked, although it can be ingested in liquid or powder form. No studies have been performed to evaluate the pharmacological effects of this compound.
THJ-2201	ng/mL	THJ-2201 is one of many synthetic cannabinoid drugs. The drug is typically sprayed on botanical material and smoked, although it can be ingested in liquid or powder form. No studies have been performed to evaluate the pharmacological effects of this compound.
THJ-018	ng/mL	THJ-018 is one of many synthetic cannabinoid drugs. The drug is typically sprayed on botanical material and smoked, although it can be ingested in liquid or powder form. No studies have been performed to evaluate the pharmacological effects of this compound.
AM-2201	ng/mL	AM-2201, a synthetic cannabinoid, has been identified in products sold as 'herbal incense'. These products may be used as an alternative to cannabis.  Whole blood concentrations of 0.31 - 4.6 ng/mL have been reported (N=6).



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## Test Updates

### Test Changes

Compound Name	Units	Reference Comment
XLR-11	ng/mL	<p>XLR-11 a synthetic cannabinoid, has been identified in products sold as 'herbal incense'. These products may be used as an alternative to cannabis.</p> <p>A serum concentration of 35 ng/mL was reported in a patient admitted to the hospital with nausea, vomiting and abdominal pain. XLR-11 has been associated with acute kidney injury.</p> <p>The whole blood to serum ratio of this analyte is not known.</p>
JWH-018	ng/mL	<p>JWH-018, a synthetic cannabinoid, has been identified in products sold as 'herbal incense'. These products may be used as an alternative to cannabis.</p> <p>Two volunteers smoked cigarettes containing 100 mg or 150 mg of an herbal incense containing an unknown amount of JWH-018. Peak serum concentrations were 8.1 and 10.2 ng/mL, respectively, 5 minutes post-dose. Serum concentrations in both volunteers were &lt;0.5 ng/mL 3 hours post dose.</p> <p>The whole blood to serum ratio of this analyte is not known.</p>
JWH-081	ng/mL	<p>JWH-081 a synthetic cannabinoid, has been identified in products sold as 'herbal incense'. These products may be used as an alternative to cannabis.</p> <p>Six patients admitted to emergency departments had JWH-210 serum concentrations of 0.25 - 42 ng/mL; the concentration was greater than 1 ng/mL in 5 cases.</p> <p>The whole blood to serum ratio of this analyte is not known.</p>
JWH-122	ng/mL	<p>JWH-122, a synthetic cannabinoid, has been identified in products sold as 'herbal incense'. These products may be used as an alternative to cannabis.</p> <p>Eleven patients admitted to emergency departments had JWH-122 serum concentrations of 0.17 - 40 ng/mL; the concentration was less than 1 ng/mL in 6 cases.</p> <p>The whole blood to serum ratio of this analyte is not known.</p>





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## Test Updates

### Test Changes

Compound Name	Units	Reference Comment
UR-144	ng/mL	<p>UR-144 a synthetic cannabinoid, has been identified in products sold as 'herbal incense'. These products may be used as an alternative to cannabis.</p> <p>JWH-081 a synthetic cannabinoid, has been identified in products sold as 'herbal incense'. These products may be used as an alternative to cannabis.</p> <p>A serum concentration of 6 ng/mL was reported in a patient admitted to the hospital with nausea, vomiting and abdominal pain.</p> <p>The whole blood to serum ratio of this analyte is not known.</p>
JWH-210	ng/mL	<p>JWH-210, a synthetic cannabinoid, has been identified in products sold as 'herbal incense'. These products may be used as an alternative to cannabis.</p> <p>Eleven patients admitted to emergency departments had JWH-210 serum concentrations of 0.2 - 190 ng/mL; the concentration was greater than 1 ng/mL in 9 cases.</p> <p>The whole blood to serum ratio of this analyte is not known.</p>
MDMB-CHMINACA	ng/mL	<p>MDMB-CHMINACA is one of many synthetic cannabinoid drugs.</p> <p>The drug is typically sprayed on botanical material and smoked, although it can be ingested in liquid or powder form. No studies have been performed to evaluate the pharmacological effects of this compound.</p>
APINACA (AKB-48)	ng/mL	<p>APINACA is one of many synthetic cannabinoid drugs.</p> <p>The drug is typically sprayed on botanical material and smoked, although it can be ingested in liquid or powder form. No studies have been performed to evaluate the pharmacological effects of this compound.</p> <p>Positive effects reported by users include euphoria, relaxation, and feelings of joy and well being. Reported negative effects include anxiety, paranoia, dry mouth and hunger.</p>



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### Test Changes

Compound Name	Units	Reference Comment
5F-APINACA (5F-AKB-48)	ng/mL	5F-APINACA is one of many synthetic cannabinoid drugs. The drug is typically sprayed on botanical material and smoked, although it can be ingested in liquid or powder form. No studies have been performed to evaluate the pharmacological effects of this compound.
FUB-AKB-48	ng/mL	FUB-AKB-48 is one of many synthetic cannabinoid drugs. The drug is typically sprayed on botanical material and smoked, although it can be ingested in liquid or powder form. No studies have been performed to evaluate the pharmacological effects of this compound.
5F-AB-001	ng/mL	5F-AB-001 is one of many synthetic cannabinoid drugs. The drug is typically sprayed on botanical material and smoked, although it can be ingested in liquid or powder form. No studies have been performed to evaluate the pharmacological effects of this compound.
APICA	ng/mL	APICA is one of many synthetic cannabinoid drugs. The drug is typically sprayed on botanical material and smoked, although it can be ingested in liquid or powder form. No studies have been performed to evaluate the pharmacological effects of this compound.
5F-APICA	ng/mL	5F-APICA is one of many synthetic cannabinoid drugs. The drug is typically sprayed on botanical material and smoked, although it can be ingested in liquid or powder form. No studies have been performed to evaluate the pharmacological effects of this compound.