



Roadmap for Seized Drug Analysis

OSAC Seized Drug Subcommittee

Analysis of Seized Drugs

Training

E2326:
Standard Practice for Education and Training of Seized Drug Analysts Converted to Annex of E2917 

SWGDRUG IA:
Code of Professional Practice for Drug Analysts 

Safety

General Laboratory Safety


29CFR 1910.1200
Hazard Communication



29CFR 1910.1030
Bloodborne Pathogens


ANSI/ISEA z358.1
Emergency Eyewashes & Shower Equipment

29CFR 1910.120
Hazardous Waste Operations and Emergency Response


Quality

E2327:
Converting to Annex of E2917
Standard Practice for Quality Assurance of Laboratories Performing Seized Drug Analysis 

E2549:
Standard Practice for Validation of Seized Drug Analytical Methods *Possible Interdisciplinary with Fire Debris/Explosives*  



SWGDRUG IVB:
Quality Assurance/Validation of Analytical Methods 

In Progress:
Standard Guide For Intralaboratory Blind Quality Control Program for Seized Drugs Analysis 

In Progress:
Proficiency Testing *Interdisciplinary Document* 

Analytical Scheme


Sampling and Sample Preparation


E2548:
Standard Guide for Sampling Seized Drugs for Qualitative and Quantitative Analysis  


ENSFI-UNODC Guidelines on Representative Drug Sampling

ENSFI-DWG Guidelines on Sampling of Illicit Drugs for Qualitative Analysis



Mass Determination


E2764:
Standard Practice for Uncertainty Assessment in the Context of Seized Drug Analysis 



SWGDRUG SD-3:
Examples of Measurement Uncertainty for Weight Determination 


SWGDRUG SD-6:
Examples of Measurement Uncertainty for Extrapolations of Net Weight and Unit Count 



Qualitative Analysis

E2329:
Standard Practice for Identification of Seized Drugs  

SWGDRUG SD-7:
Construction of an Analytical Scheme 

In Progress Annex to E2329:
Opioid/NPS Analytical Scheme  


In Progress Annex to E2329:
Negative Analytical Scheme 

In Progress Annex to E2329:
MJ/Hemp Analytical Scheme  


See Qualitative Analytical Techniques Roadmap

Quantitative Analysis

ENSFI-DWG Guidelines on Sampling of Illicit Drugs for Quantitative Analysis

SWGDRUG SD-4:
Examples of Measurement Uncertainty for Purity Determinations 


Clandestine Laboratories

E2882:
Standard Guide for Analysis of Clandestine Drug Laboratory Evidence 


Process Mapping

Legal


Court Testimony 

Pharmacore Resources 

Report Writing

ASTM E620:
Standard Practice for Reporting Opinions of Scientific or Technical Experts 

SWGDRUG SD-5:
Reporting Examples 

In Progress:
Seized Drugs Report Writing 


Legend:


 OSAC Registry Document

 ASTM Document

 OSAC Seized Drugs Webpage Resource Document

 SWGDRUG Document

 Some Work Completed by OSAC Seized Drugs SC

 Future Development by OSAC Seized Drugs SC

R Needs Further Research

 Subcommittee Top Priority

Qualitative Analytical Techniques

Instrumental

Non-Instrumental

Mass Spectrometry

In Progress:
Standard Practice for Assessment of Gas Chromatography & Electron Ionization Mass Spectrometry Data Drugin the Qualitative Analysis of Seized Drugs ✓

In Progress:
GCMS Analysis Considerations Resource Document ✓

In Progress:
Standard Guide for the Development of EI-MS Libraries ✓

Gas Chromatography

In Progress:
Standard Practice for Assessment of Gas Chromatography & Electron Ionization Mass Spectrometry Data Drugin the Qualitative Analysis of Seized Drugs ✓

In Progress:
Supplemental Document with Examples ✓

Infrared Spectroscopy

In Progress:
Standard Practice for Assessment of Gas Chromatography & Electron Ionization Mass Spectrometry Data Drugin the Qualitative Analysis of Seized Drugs ★✓

Liquid Chromatography

Capillary Electrophoresis

Supercritical Fluid Chromatography

Ion Mobility Spectrometry

Raman Spectroscopy

Ultraviolet Spectroscopy

Fluorescence Spectroscopy

Nuclear Magnetic Resonance Spectroscopy

X-Ray Diffraction

Microcrystalline Tests

E1968:
Standard Guide for Microcrystal Testing in the Forensic Analysis of Cocaine ✓

E1969:
Standard Guide for Microcrystal Testing in the Forensic Analysis of Methamphetamine and Amphetamine ✓

E2125:
Standard Guide for Microcrystal Testing in the Forensic Analysis of Phencyclidine and Its Analogues ✓

Examination of Plant Material

Macroscopic Identification

Microscopic Identification

Cannabis Resources Document ✓

Color Tests

Thin Layer Chromatography

Pharmaceutical Identifiers

Immunoassay

Melting Point

Legend:



OSAC Registry Document



ASTM Document



OSAC Seized Drugs Webpage Resource Document



SWGDRUG Document



Some Work Completed by OSAC Seized Drugs SC



Future Development by OSAC Seized Drugs SC



Needs Further Research



Subcommittee Top Priority