

PPCP ESI- Analytes (2014)	Usage Description
13C-15N4 Lamotrigine	Internal Standard
13C2 Erythromycin	Internal Standard
13C3 Caffeine	Internal Standard
13C3 Lamotrigine	Internal Standard
13C6 Sulfamethoxazole	Internal Standard
13C-D3 Tramadol	Internal Standard
6-Acetylmorphine	Heroin metabolite
7-Hydroxyquetiapine	Degradate of quetiapine, antipsychotic, antidepressant
Acebutolol	Anti-hypertensive (beta blocker)
Acetaminophen	Analgesic
Albuterol	Bronchodilator
Amitriptyline	Anti-depressant
Amitriptyline (+/-)-E-10-hydroxylated	Anti-depressant metabolite
Amphetamine	Central nervous system (CNS) stimulant
Aripiprazole	Dopamine agonist, anti-psychotic
Atenolol	Anti-hypertensive (beta blocker)
Atorvastatin	Statin, cholesterol reductant (Lipitor)
Atrazine	Triazine herbicide for broad-leaf weeds
Benzoyllecgonine	Cocaine metabolite
Buprenorphine	Semi-synthetic opioid, used for addiction treatment
Bupropion	Anti-depressant, smoking cessation aid
Caffeine	Mild CNS stimulant
Carbamazepine	Anti-convulsant
Carbamazepine 10,11 epoxide	Carbamazepine degradate
Carisoprodol	Muscle relaxant
Chlorpheniramine	Anti-histamine for treatment of allergies
Cimetidine	Stomach acid inhibitor for heartburn, ulcer treatment
Clenbuterol	Bronchodilator
Clopidogrel carboxylic acid	Clopidogrel degradate, anti-platelet agent
Cocaethylene	Cocaine metabolite
Cocaine	Narcotic
Codeine	Opiate
Cotinine	Nicotine degradate, antidepressant
D10 Carbamazepine	Internal Standard
D10 Gabapentin	Internal Standard
D10 Modafinil	Internal Standard
D10 Ritalinic acid	Internal Standard
D11 Methamphetamine	Internal Standard
D3 Amitriptyline	Internal Standard
D3 Benzoyllecgonine	Internal Standard
D3 Cocaethylene	Internal Standard
D3 Cocaine	Internal Standard
D3 Cotinine	Internal Standard
D3 Desmethylcitalopram	Internal Standard
D3 Dextromethorphan	Internal Standard
D3 Diphenhydramine	Internal Standard
D3 Duloxetine	Internal Standard
D3 Ecgonine	Internal Standard
D3 Ecgonine Methyl Ester	Internal Standard
D3 EDDP	Internal Standard
D3 Mefenamic acid	Internal Standard
D3 Methotrexate	Internal Standard
D3 Morphine	Internal Standard
D3 Oxycodone glucuronide	Internal Standard

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D3 Phenylpropanolamine	Internal Standard
D3 Pseudoephedrine	Internal Standard
D3 Sertraline	Internal Standard
D4 Acetaminophen	Internal Standard
D4 Buprenorphine	Internal Standard
D4 Lorazepam	Internal Standard
D4 Meperidine	Internal Standard
D4 Normeperidine	Internal Standard
D5 Amphetamine	Internal Standard
D5 Atrazine	Internal Standard
D5 Fentanyl	Internal Standard
D5 MDMA	Internal Standard
D5 Norfentanyl	Internal Standard
D5 Oxazepam glucuronide	Internal Standard
D5 Phentermine	Internal Standard
D5 Temazepam	Internal Standard
D6 6-Acetylmorphine	Internal Standard
D6 Codeine	Internal Standard
D6 Fluoxetine	Internal Standard
D6 Hydrocodone	Internal Standard
D6 Hydroxybupropion	Internal Standard
D6 Norfluoxetine	Internal Standard
D6 Paroxetine	Internal Standard
D6 Pregabalin	Internal Standard
D6 Theophylline	Internal Standard
D6 Trazadone	Internal Standard
D6 Venlafaxine	Internal Standard
D7 Atenolol	Internal Standard
D7 Carisoprodol	Internal Standard
D7 Meprobamate	Internal Standard
D7 Zolpidem	Internal Standard
D8 Aripiprazole	Internal Standard
D8 Quetiapine	Internal Standard
D9 Clenbuterol	Internal Standard
D9 Methadone	Internal Standard
D9 Methylphenidate	Internal Standard
DEET	Pest repellent
Dehydroaripiprazole	Aripiprazole degradate, dopamine agonist, anti-psychotic
Desmethylcitalopram	Citalopram degradate, an anti-depressant
Desmethylvenlafaxine	Anti-depressant (Pristique®)
Dextromethorphan	Cough suppressant
Dihydromorphine	Semi-synthetic opioid, used as analgesic
Diltiazem	Anti-hypertensive (calcium channel blocker)
Diphenhydramine	Anti-histamine for treatment of allergies, mild sedative
Disopyramide	Anti-arrhythmic medication
Donepezil	Acetylcholinesterase inhibitor
Duloxetine	Anti-depressant (Cymbalta®)
Ecgonine Methyl Ester	Ecgonine degradate, alkaloid similar to cocaine
EDDP	Methadone metabolite
Erythromycin	Macrolide antibiotic, similar to penicillin
Erythromycin-anhydro	Erythromycin degradate
Escitalopram	Anti-depressant (Lexapro®)
Famotidine	Antacid (Pepcid®)
Fentanyl	Opioid analgesic, anesthetic

PPCP ESI- Analytes (2014)	Usage Description
Fluoxetine	Antidepressant (Prozac®)
Fluticasone propionate	Corticosteroid for allergies and asthma
Gabapentin	Epileptic treatment and neuropathic pain reliever
Glyburide	Anti-diabetic
Hydrocodone	Opioid narcotic, analgesic, anesthetic (Vicodin®)
Hydromorphone	Opioid analgesic
Hydroxybupropion	Bupropion degradate, anti-depressant
Ketoprofen	Non-steroidal anti-inflammatory drug (NSAID)
Lamotrigine	Anti-convulsant
Levorphanol	Synthetic opioid, morphine-like analgesic
Lidocaine	Local anesthetic, anti-arrhythmic
Loratadine	Histamine antagonist for allergies
Lorazepam	Sedative
Lorazepam glucuronide	Lorazepam degradate
MDA	Amphetamine metabolite
MDEA	Amphetamine metabolite
MDMA	Empathogenic drug, "Ecstasy"
Mefenamic acid	NSAID
Mefenamic acid 3-hydroxy methyl	Mefenamic acid degradate
Meperidine	A.K.A. Pethidine or Demerol - opioid analgesic
Meprobamate	Anxiolytic drug, minor tranquilizer
Metformin	Anti-diabetic drug
Methadone	Synthetic opioid, analgesic
Methamphetamine	CNS stimulant, "meth", "speed"
Methotrexate	Antimetabolite and antifolate, for cancer and autoimmune diseases
Methylphenidate	Psychostimulant for ADHD and narcolepsy
Metoprolol	Anti-hypertensive
m-Hydroxybenzoylecgonine	Cocaine & Benzoylecgonine degradate
Modafinil	Eugeroic or vigilance-promoting drug
Monoethylglycinexylidide	Lidocaine degradate, local anesthetic
Montelukast	Treatment for allergies and asthma
Morphine	Alkaloid opiate
Nifedipine	Anti-hypertensive drug
Nifedipine oxidized	Nifedipine degradate
Norbuprenorphine	Synthetic opioid for addiction treatment
Norfentanyl	Synthetic opioid (related to Fentanyl), potent analgesic
Norfluoxetine	Metabolite of Fluoxetine (Prozac®)
Normeperidine	Meperidine degradate, opioid analgesic
Normorphine	Synthetic opiate similar to morphine
Norquetiapine	Quetiapine degradate, anti-psychotic & anti-depressant
Norverapamil	Verapamil degradate, anti-hypertensive
Omeprazole	Treatment of acid reflux, peptic ulcers, (Prilosec®)
Oxazepam	Metabolite of Diazepam, anti-anxiety, panic attack treatment
Oxazepam glucuronide	Metabolite of Oxazepam
Oxycodone	Narcotic pain reliever "oxycontin"
Oxymorphone	Semi-synthetic opioid analgesic
Oxymorphone glucuronide	Oxymorphone degradate
Paraxanthine	CNS stimulant, structurally related to caffeine
Paroxetine	Anti-depressant
Phenmetrazine	Stimulant and appetite suppressant
Phentermine	Psychostimulant and appetite suppressant
Phenylpropanolamine	Stimulant, decongestant, and anorectic agent (reduces appetite)
Phenytoin	Anti-epileptic drug
Pioglitazone	Anti-diabetic drug

PPCP ESI- Analytes (2014)	Usage Description
Pregabalin	Anti-convulsant
Primidone	Anti-convulsant
Propranolol	Treatment for hypertension, anxiety and panic
Pseudoephedrine	Nasal/sinus decongestant, stimulant
Quetiapine	Anti-psychotic & anti-depressant
Ranitidine	Heartburn medication (Zantac®)
Ritalinic acid	Ritalin degradate, psychostimulant for ADHD
Sertraline	Antidepressant (Zoloft®)
Sildenafil	A.K.A. Viagra®
Sotalol	Anti-arrhythmic medication
Sulfamethazine	Sulfonamide anti-bacterial
Sulfamethoxazole	Sulfonamide anti-bacterial
Sumatriptan	Migraine headache treatment
Temazepam	Psychoactive drug, anti-anxiety & anti-convulsant
Theobromine	Found in chocolate and tea, similar to caffeine
Theophylline	Treatment for COPD and asthma
Thiabendazole	Fungicide and antiparasitic
Tramadol	Opioid analgesic for arthritis and fibromyalgia
Trazodone	Serotonin antagonist anti-depressant
Triamterene	Diuretic for treatment of hypertension and edema
Trimethoprim	Anti-biotic
Tylosin	Anti-biotic
Valsartan	Treatment for high blood pressure or congestive heart failure
Venlafaxine	Anti-depressant for anxiety attacks or major depressive disorder
Verapamil	Anti-hypertensive
Zolpidem	Short-acting hypnotic for insomnia (Ambien®)
Zolpidem phenyl-4-carboxylic acid	Zolpidem degradate

PPCP ESI- Analytes (2014)	Usage Description
(+/-)11-nor-9-carboxy-delta-THC	Marijuana (THC) metabolite
13C3 Ibuprofen	Internal Standard
Bezafibrate	Lipid regulator
Chloramphenicol	Bacteriostatic antimicrobial
D10 Ritalinic acid	Internal Standard
D3 Mefenamic acid	Internal Standard
D4 Salicylic acid	Internal Standard
D5 Chloramphenicol	Internal Standard
D5 Phenobarbital	Internal Standard
D6 Gemfibrozil	Internal Standard
D9 (+/-)11-nor-9-carboxy-delta-THC	Internal Standard
Diclofenac	Non-steroidal anti-inflammatory drug (NSAID)
Fenbufen	NSAID
Furosemide	Diuretic
Gemfibrozil	Lipid regulator
Hydrochlorothiazide	Diuretic
Ibuprofen	NSAID
Methylparaben	Antifungal preservative
Modafinil acid	Modafinil degradate, wakefulness stimulant
Naproxen	NSAID
n-Butylparaben	Antifungal preservative
Phenobarbital	Barbituate and anticonvulsant
Triclocarban	Disinfectant
Triclosan	Antibacterial and antifungal
Warfarin	Anticoagulant

USEPA Region 8

2014 Waste Indicator

Target Analytes/Uses.

Analyte	Description
1,4-Dichlorobenzene	Pesticide and Deodorant
17beta-Estradiol	Sex hormone; estrogen
1-Methylnaphthalene	Manufacturing chemical: dyes and resins
2,6-Dimethylnaphthalene	Production of polyester fibers
2-Methylnaphthalene	Manufacturing chemical: dyes and resins
3-Methyl indole	Occurs naturally in feces and coal tar; strong odor; Manufacturing
4-Cumylphenol	Manufacturing chemical: petroleum, plastics
4-n-Octylphenol	Esterogenic disruptor
4-tert-Octylphenol	Used in the manufacture of detergent, industrial cleaners
Acetophenone	Used in fragrances and resins
Benzophenone	Used in packaging, printing, to prevent UV damage to odors/colors
Bisphenol A	Used in plastic; contains hormone-properties
Bromacil	Herbicide
Butylated Hydroxyanisole	Antioxidant and preservative in food, petrol, rubber, cosmetics
Caffeine	Stimulant
Camphor	Plasticizer for nitrocellulose; antimicrobial
Carbaryl	Insecticide
Carbazole	Used in dye production
Celestolide	Used in fragrances
Chlorpyrifos	Insecticide
Dacthal	Herbicide
Diazinon	Insecticide
Dichlorvos	Insecticide
Equilenin	Estrogenic hormone
Estrone	Estrogenic hormone
Ethinylestradiol	Estrogenic hormone
Fluoranthene	Coal tar ingredient
Fluoranthene-d10	Coal tar ingredient
Galaxolide	Fragrance component
Indole	Fragrance component and pharmaceutical precursor
Isoborneol	Camphor substitute; Used in antiseptics and as a flavoring agent
Isophorone	Solvent
Isoquinoline	Solvent, used to make dyes&paints as well
Menthol	decongestant; pain reliever; pesticide; fragrance
Methyl Salicylate	Fragrances; food and beverages
Metolachlor	Herbicide
Musk ketone	Fragrances
Naphthalene	Fragrant fumigant
Nonylphenol	Manufacturing chemical: pesticides, antioxidants, plastic; potential endocrine disruptor
p-Cresol	Manufacturing chemical; antioxidant production
Pentachlorophenol	Pesticide and Disinfectant
Phantolide	Synthetic musk
Phenanthrene	Manufacturing chemical: pesticide, drugs, dyes, plastics
Phenol	Manufacturing chemical: pesticides, drugs, plastics, etc... petrol byproduct
Phenol-d6	Manufacturing chemical
Prometon	Herbicide
Pyrene	Manufacturing chemical: Dyes
Tonalide	Synthetic musk
Tri(2-butoxyethyl) Phosphate	Flame retardant component
Tri(2-chloroethyl) Phosphate	Flame retardant component
Tri(dichloroisopropyl) Phosphate	Flame retardant component
Tributyl Phosphate	Manufacturing chemical: dyes, plastics
Triclosan	Antibacterial and antifungal
Triethyl Citrate	Food additive, used in plastics and drugs
Triphenyl phosphate	Flame retardant component

Description/Uses of LCMS Pesticide Target Analytes

Analyte	Use
3-Hydroxycarbofuran	Degradate of carbofuran, insecticide
Acetochlor	Pre-emergent herbicide
Alachlor	Herbicide for grasses and broad-leaf weeds
Aldicarb	Carbamate insecticide
Aldicarb sulfone	Degradate of aldicarb, insecticide
Aldicarb sulfoxide	Degradate of aldicarb, insecticide
Atraton	Triazine acid-based herbicide
Atrazine	Triazine herbicide for broad-leaf weeds
Atrazine de-ethyl	Degradate of atrazine, herbicide
Atrazine de-isopropyl	Degradate of atrazine, herbicide
Azoxystrobin	Fungicide for fruits & vegetables
Bromacil	General herbicide for weeds and grasses
Carbaryl	Carbamate insecticide, ingredient in Sevin®
Carbofuran	Systemic insecticide, ingredient in Furadan®
Chlorimuron ethyl	Sulfonylurea herbicide
Chlorsulfuron	Sulfonylurea herbicide
Clothianidin	Neonicotinoid insecticide
Cyanazine	Triazine herbicide for broad-leaf weeds
Diazinon	Nonsystemic organophosphate insecticide
Dimethachlor	Chloroacetanilide herbicide
Dimethenamid	Widely-used herbicide
Disulfoton Sulfone	Degradate of disulfoton insecticide
Diuron	Photosynthesis-inhibiting herbicide
Diuron Metabolite	Degradate of diuron, herbicide
EPTC	Thiocarbamate herbicide
Ethoprop	Organophosphate insecticide
Foramsulfuron	Sulfonylurea herbicide
Hexazinone	Triazine herbicide, ingredient in Velpar®
Imazaquin	Broad-spectrum weed herbicide
Imazethapyr	Broad-spectrum weed herbicide
Imidacloprid	Neonicotinoid insecticide
Linuron	Photosynthesis-inhibiting herbicide
Malathion	Organophosphate insecticide
Metalaxyl	Phenylamide systemic fungicide
Methiocarb	Carbamate insecticide, molluscicide
Methomyl	Carbamate insecticide, toxic to humans
Metolachlor	Herbicide for grasses and broad-leaf weeds
Metribuzin	Triazine herbicide for broad-leaf weeds
Monuron	Phenylurea herbicide
Neburon	Substituted urea herbicide
Oxamyl	Carbamate insecticide
Prometon	Triazine herbicide
Propachlor	Acetanilide herbicide, manuf. stopped-1998
Propazine	Triazine herbicide
Propiconazole	Triazole fungicide
Propoxur	Carbamate insecticide, toxic to bees
Simazine	Triazine herbicide
Sulfometuron methyl	Triazine herbicide for broad-leaf weeds & grasses
Tebuconazole	Triazole fungicide
Tebuthiuron	Dimethylurea herbicide
Terbutylazine	Triazine herbicide
Thiamethoxam	Neonicotinoid insecticide, banned in EU
2,4,5-T	Chlorophenoxy acid herbicide, defoliant
2,4,5-TP (Silvex)	Chlorophenoxy acid herbicide
2,4-D	Chlorophenoxy acid herbicide, in Weed-B-Gone®
Acetochlor OA	Acetochlor degradate, pre-emergent herbicide
Alachlor OA	Alachlor degradate, herbicide
Bentazon	Thiadiazine herbicide
Bromoxynil	Nitrile herbicide for broad-leaf weeds
Butachlor ESA	Butachlor degradate, acetanilide herbicide
Dacthal monoacid	Dacthal degradate, pre-emergent herbicide
Dichloroprop	Chlorophenoxy acid herbicide for broad-leaf weeds
Dimethenamid ESA	Dimethenamide degradate, herbicide
Fipronil	Phenylpyrazole broad-use insecticide
Fipronil sulfide	Fipronil degradate, insecticide
Fipronil sulfone	Fipronil degradate, insecticide
MCPP	2,4-D degradate, herbicide
Metolachlor ESA	Metolachlor degradate, herbicide
Oryzalin	Dinitroaniline herbicide
Propachlor ESA	Propachlor degradate, herbicide
Propachlor OA	Propachlor degradate, herbicide
Triclopyr	Pyridinyl foliar herbicide, defoliant.