Alkyl phosphate pesticide metabolites Alkyl phosphate pesticide metabolites	6-chloronicotinic acid diethyldithiophosphate diethylphosphate diethylthiophosphate	CINA6 DEDP DEP DETP	Required Units ng/mL ng/mL ng/mL ng/mL
Alkyl phosphate pesticide metabolites	dimethyldithiophosphate dimethylthiophosphate dimethylthiophosphate 4-fluoro-3-phenoxybenzoic acid 3-phenoxybenzoic acid 4-nitrophenol 3,5,6-trichloro-2-pyridinol	DMDP DMP DMTP FPBA PBA PNP TCP	ng/mL ng/mL ng/mL ng/mL ng/mL ng/mL ng/mL
Full Chemical Group Name Organochlorine Pesticides	alpha-hexachlorocyclohexane beta-hexachlorocyclohexane cis-Chlordane cis-Nonachlor gamma-hexachlorocyclohexane Hexachlorobenzene Mirex	AHCH BHCH CCHL CNON GHCH HCB	Required Units ng/mL ng/mL ng/mL ng/mL ng/mL ng/mL ng/mL ng/mL ng/mL
Organochlorine Pesticides Organochlorine Pesticides Organochlorine Pesticides Organochlorine Pesticides Organochlorine Pesticides Full Chemical Group Name Parabens	4,4'-DDE 4,4'-DDT trans-Chlordane trans-Nonachlor Full Analyte Name Butyl paraben	PPDDE PPDDT TCHL TNON Analyte Code BuPB	ng/mL ng/mL ng/mL ng/mL ng/mL ng/mL ng/mL
Parabens Parabens Parabens Full Chemical Group Name	Benzyl paraben Ethyl paraben Heptyl paraben Methyl Paraben Propyl paraben Full Analyte Name	ETPB HEPB MEPB PRPB Analyte Code	ng/mL ng/mL ng/mL ng/mL ng/mL ng/mL ng/mL
Polychlorinated biphenyls	PCB138 PCB153 PCB180 PCB28 PCB52	PCB118 PCB138 PCB153 PCB180 PCB28 PCB52	ng/mL ng/mL ng/mL ng/mL ng/mL ng/mL ng/mL
Full Chemical Group Name Volatile Organic Compounds	N-Acetyl-S-(2-carbamoylethyl)-L-cysteine Mercapturic acids of acrolein and crotonaldehyde N-Acetyl-S-(N-methylcarbamoyl)-L-cysteine 2-Aminothiazoline-4-carboxylic acid N-Acetyl-S-(benzyl)-L-cysteine N-Acetyl-S-(n-propyl)-L-cysteine Benzene	AAMA AMA AMCC ATCA BMA BPMA BZ	Required Units pmol/mL pmol/mL pmol/mL pmol/mL pmol/mL pmol/mL pmol/mL
Volatile Organic Compounds	Chloroform Carbon Tetrachloride N-Acetyl-S-(2-cyanoethyl)-L-cysteine N-Acetyl-S-(1,2-dichlorovinyl)-L-cysteine N-Acetyl-S-(2,2-dichlorovinyl)-L-cysteine 1,2-Dichloroethane N-Acetyl-S- (3,4-dihydroxybutyl)-L-cysteine	CFRM CTET CYMA DCVMA12 DCVMA22 DE12 DHBMA	pmol/mL pmol/mL pmol/mL pmol/mL pmol/mL pmol/mL pmol/mL pmol/mL
Volatile Organic Compounds	Ethylbenzene N-Acetyl-S-(2-carbamoyl-2-hydroxyethyl)-L-cysteine N-Acetyl-S- (2-hydroxyethyl)-L-cysteine 3-Hydroxypropyl-1-methyl mercapturic acid + 3-Hydroxypropyl-2-methyl mercapturic acid + 3-Hydroxypropyl-3-methyl mercapturic acid N-Acetyl-S- (3-hydroxypropyl)-L-cysteine N-Acetyl-S-(2-hydroxypropyl)-L-cysteine N-Acetyl-S-(3-hydroxypropyl-1-methyl)-L-cysteine	EB GAMA HEMA2 HMPMA HPMA HPMA2	pmol/mL pmol/mL pmol/mL pmol/mL pmol/mL pmol/mL pmol/mL pmol/mL
Volatile Organic Compounds	2-Methylhippuric acid 3-Methylhippuric acid + 4-Methylhippuric acid N-Acetyl-S-(1-hydroxymethyl-2-propenyl)-L-cysteine N-Acetyl-S-(2-hydroxy-3-butenyl)-L-cysteine N-Acetyl-S-(4-hydroxy-2-buten-1-yl)-L-cysteine trans, trans -Muconic acid m-Xylene	MHA2 MHA34 MHBMA1 MHBMA2 MHBMA3 MU	pmol/mL
Volatile Organic Compounds	Phenylglyoxylic acid N-Acetyl-S-(1-phenyl-2-hydroxyethyl-L-cysteine + N-Acetyl-S-(2-phenyl-2-hydroxyethyl)-L-cysteine N-Acetyl-S-(phenyl)-L-cysteine p-Xylene Mercapturic acid of benzene Styrene Tetrachloroethene	PGA PHEMA PMA PXY SPMA STY	pmol/mL pmol/mL pmol/mL pmol/mL pmol/mL pmol/mL pmol/mL pmol/mL pmol/mL
Volatile Organic Compounds Volatile Organic Compounds Volatile Organic Compounds Full Chemical Group Name Brominated Flame Retardants Brominated Flame Retardants	Toluene 2-Thioxothiazolidine-4-carboxylic acid N-ace-S-(phenl-2-hydxyetl)-L-cys(ng/mL) Full Analyte Name 2,2',4,4',6-Pentabromodiphenyl ether 2,2',4,4',5,5'-Hexabromodiphenyl ether	TOL TTCA VOCPHE Analyte Code BDE100 BDE153	pmol/mL pmol/mL pmol/mL Required Units ng/mL ng/mL
Brominated Flame Retardants	2,2',4'-Tribromodiphenyl ether 2,2',3,4,4',5',6-Heptabromodiphenyl ether 2,2',3,3',4,4',5,5',6,6'-Decabromodiphenyl ether 2,4,4'-Tribromodiphenyl ether 2,2',4,4'-Tetrabromodiphenyl ether 2,3',4,4'-Tetrabromodiphenyl ether 2,3',4,4'-Pentabromodiphenyl ether	BDE17 BDE183 BDE209 BDE28 BDE47 BDE66 BDE85	ng/mL ng/mL ng/mL ng/mL ng/mL ng/mL ng/mL ng/mL ng/mL
Brominated Flame Retardants Organophosphorus Flame Retardants Full Chemical Group Name Organophosphorus Flame Retardants Organophosphorus Flame Retardants Organophosphorus Flame Retardants	2,2',4,4',5,5'-Hexabromobiphenyl Bis(2-chloroethyl) phosphate Full Analyte Name Bis(1-chloro-2-propyl) phosphate Bis(1,3-dichloro-2-propyl) phosphate Dibutyl phosphate	PBB153 BCETP Analyte Code BCPP BDCPP DBUP	ng/mL ng/mL Required Units ng/mL ng/mL ng/mL ng/mL
Organophosphorus Flame Retardants Full Chemical Group Name Perfluoroalkyl and Polyfluoroalkyl Substa	Dibenzyl phosphate Di-o-cresylphosphate Di-p-cresylphosphate Diphenyl phosphate 2,3,4,5-tetrabromobenzoic acid Full Analyte Name Ethyl Perfluorooctane sulfonamido acetic acid	DBZP DOCP DPCP DPHP TBBA Analyte Code NETFOSAA	ng/mL ng/mL ng/mL ng/mL ng/mL ng/mL ng/mL
Perfluoroalkyl and Polyfluoroalkyl Substa Perfluoroalkyl and Polyfluoroalkyl Substa	N-methyl Perfluorooctane sulfonamido acetic acid Perfluorobutanoic acid Perfluorobutanesulfonic acid Perfluorodecanoic acid Perfluorooctanesulfonate Perfluoroheptanoic acid Perfluoroheptanoic acid Perfluorohexanoic acid Perfluorohexanoic acid	NMFOSAA PFBA PFBS PFDA PFDODA PFHPA PFHXA PFHXS	ng/mL ng/mL ng/mL ng/mL ng/mL ng/mL ng/mL ng/mL ng/mL
Perfluoroalkyl and Polyfluoroalkyl Substa	Perfluorononanoic acid Perfluorooctanoic acid Perfluorooctanesulfonic acid Perfluorooctanesulfonamide Perfluoro-n-pentanoic acid Perfluoro-noic acid	PFNA PFOA PFOS PFOSA PFPEA PFUNDA	ng/mL ng/mL ng/mL ng/mL ng/mL ng/mL ng/mL
Tobacco Metabolites	Anatabine Cotinine (free) Cotinine (total) Hydroxycotinine (free) Hydroxycotinine (total) Mercapturic acids of 1,3-butadiene - urine Nicotine (free)	ANAT COT COTT HCOT HCOTT HEMA NIC	Required Units ng/mL ng/mL ng/mL ng/mL ng/mL ng/mL ng/mL ng/mL ng/mL
Tobacco Metabolites Tobacco Metabolites Tobacco Metabolites Tobacco Metabolites Tobacco Metabolites Full Chemical Group Name Cytokines and Other Inflammatory Marke	Nicotine (total) 4-(methlynitrosamino)-1-(3-pyridyl)-1-butanol Nornicotine Total nicotine equivalents - urine, blood Full Analyte Name C-reactive protein	NICT NNAL NORN TNIC Analyte Code CRP	ng/mL pmol/mL ng/mL ng/mL Required Units µg/mL
Cytokines and Other Inflammatory Market Cytoki	Granulocyte macrophage Colony stimulating factor HAPTOGLOBIN Interferon gamma Interleukin 10 Interleukin12P70 Interleukin13 Interleukin15	GMCSF HAPTOGLOBIN IFNG IL10 IL12P70 IL13	pg/mL
Cytokines and Other Inflammatory Market Cytoki	Interleukin17E/IL25 Interleukin 17F Interleukin1B Interleukin2 Interleukin21 Interleukin22 Interleukin23	IL17EIL25 IL17F IL1B IL2 IL21 IL22	pg/mL ng/mL ng/mL pg/mL pg/mL pg/mL pg/mL ng/mL ng/mL ng/mL
Cytokines and Other Inflammatory Market Cytokines and Other Inflammatory Market	Interleukin28A Interleukin31 Interleukin33 Interleukin4 Interleukin5 Interleukin6 Interleukin-8	IL28A IL31 IL33 IL4 IL5 IL6	ng/mL ng/mL pg/mL pg/mL pg/mL pg/mL pg/mL pg/mL pg/mL
Cytokines and Other Inflammatory Market	Macrophage Inflammatory Protein-3A Matrix metalloproteinase 1 Matrix metalloproteinase 2 Matrix metalloproteinase 2 Matrix metalloproteinase 7 Matrix metalloproteinase 9 tissue inhibitor of metalloproteinase 1 tissue inhibitor of metalloproteinase 2	MIP3A MMP1 MMP10 MMP2 MMP7 MMP9 TIMP1 TIMP2	pg/mL
Cytokines and Other Inflammatory Marke Full Chemical Group Name Oxidative Stress Markers Oxidative Stress Markers Oxidative Stress Markers	Tumor necrosis factor A Tumor necrosis factor B Leukotriene E4 Full Analyte Name 8-iso Prostaglandin F2α 2,3-dinor-8-iso Prostaglandin F2α	TNFA TNFB LTE4 Analyte Code F2A8IP F2A23D	pg/mL pg/mL ng/mL Required Units ng/mL ng/mL ng/mL ng/mL
Oxidative Stress Markers Oxidative Stress Markers Full Chemical Group Name Phenols Phenols Phenols	8,12-iso-Isoprostane-F2α-VI 8-Hydroxy-2'-deoxyguanosine Full Analyte Name Benzophenone-1 2,2',4,4'-tetrahydroxybenzophenone Benzophenone-3	F2A12I OH8DG Analyte Code BP1 BP2 BP3	ng/mL ng/mL Required Units ng/mL ng/mL ng/mL ng/mL
Phenols	Bisphenol A 4,4'-(hexafluoroisopropylidene)-dephenol 4,4'-(1-phenylethylidene)bisphenol 2,2'-bis(4-hydroxyphenyl)butane Bisphenol F 4,4'-(1,4-Phenylenediisopropylidene)bisphenol Bisphenol S	BPA BPAF BPAP BPB BPF BPP	ng/mL
Phenois	2,4-Dichlorophenol 2,5-Dichlorophenol 3,4-Dihydroxy benzoic acid 4-Hydroxybenzoic acid 2-Chlorophenol 3-Chlorophenol 4-Chlorophenol 4-hydroxybenzophenone	DCP24 DCP25 DHB34 HB4 MCP2 MCP3 MCP4 OH4BP	ng/mL
Phenols	Protocatechuic acid ethyl ester 3,4-Dihydroxy-benzoic acid methyl ester Oxybenzone (phenyl 13C6, 99%) 100 ug/mL in Acetonitrile Pentachlorophenol Triclocarban 2,4,5-Trichlorophenol 2,4,6-Trichlorophenol Triclosan	OHETP OHMEP OXB PCP TCC TCP245 TCP246 TCS	ng/mL ng/mL ng/mL ng/mL ng/mL ng/mL ng/mL ng/mL ng/mL
Phenols Phenols Phenols Phenols Phenols Full Chemical Group Name Trace Elements in blood	2,3,4,5-Tetrachlorophenol 2,3,4,6-Tetrachlorophenol 2,3,5,6-Tetrachlorophenol 2,4,5,6-Tetrachlorophenol Full Analyte Name Magnesium	TECP2345 TECP2346 TECP2356 TECP2456 Analyte Code Mg	ng/mL ng/mL ng/mL ng/mL ng/mL ng/mL ng/mL ng/mL ng/mL
Trace Elements in blood	Molybdenum Nickel Lead Selenium Tin Thallium Vanadium	Mo Ni Pb Se Sn TI	ng/mL ng/mL ng/mL µg/dL ng/mL ng/mL ng/mL ng/mL ng/mL ng/mL
Trace Elements in blood Full Chemical Group Name Urinary Dilution Factor Urinary Dilution Factor Full Chemical Group Name	Full Analyte Name Creatinine Specific Gravity Full Analyte Name	Analyte Code CRE SG Analyte Code	Required Units mg/dL kg/m3 Required Units
Fatty Acids	C16:0 C16:1n7 C18:0 C18:1n7 C18:1n9 C18:2n6 C18:3n3	C160 C161N7 C180 C181N7 C181N9 C182N6 C183N3	μmol/L
Fatty Acids	C20:3n6 C20:4n6 C20:5n3 C22:0 C22:4n6 C22:5n3 C22:6n3	C203N6 C204N6 C205N3 C220 C224N6 C225N3 C226N3	μmol/L
Fatty Acids Full Chemical Group Name PAHs PAHs PAHs PAHs PAHs	Full Analyte Name 1-hydroxybenz[a]anthacene Benzo[a]pyrene tetraol 1-hydroxybenzo[c]-phenanthrene 2-hydroxybenzo[c]-phenanthrene	C241N9 Analyte Code BAA1 BAPT BCP1 BCP2	Required Units ng/L ng/L ng/L ng/L
PAHs PAHs PAHs PAHs	1-hydroxychrysene 2-hydroxychrysene 3-hydroxychrysene 4-hydroxychrysene 6-hydroxychrysene 2-hydroxyfluorene 3-hydroxyfluorene	CHRY1 CHRY2 CHRY3 CHRY4 CHRY6 FLUO2 FLUO3	ng/L ng/L ng/L ng/L ng/L ng/L ng/L ng/L
PAHs PAHs PAHs PAHs PAHs PAHs PAHs PAHs	1-hydroxynaphthalene 2-hydroxyphenanthrene 1-hydroxyphenanthrene 2-hydroxyphenanthrene 2-hydroxyphenanthrene + 3-hydroxyphenanthrene 3-hydroxyphenanthrene 4-hydroxyphenanthrene	NAP1 NAP2 PHEN1 PHEN2 PHEN2PHEN3 PHEN3 PHEN4	ng/L ng/L ng/L ng/L ng/L ng/L ng/L ng/L
PAHs PAHs Full Chemical Group Name Phthalates Phthalates Phthalates	Phenanthrene tetrol 1-hydroxypyrene Full Analyte Name 2-(((7-Carboxy-4-methylheptyl)oxy)carbonyl)cyclohexanecarboxylic Acid mono-benzyl phthalate mono (5-carboxy-2-ethylpentyl) phthalate (DEHP)	PHET PYR1 Analyte Code CXMINCH MBZP MCEPP	pmol/mL ng/L Required Units ng/mL ng/mL ng/mL
Phthalates	mono(7-carboxyheptyl)phthalate mono-carboxy isononyl phthalate mono-carboxy isooctyl phthalate mono-2-(carboxymethyl) hexyl phthalate Cyclohexane-1,2-dicarboxylic acid mono carboxyisooctyl ester (DINCH) mono (6-COOH-2-methylheptyl) phthalate mono (7-COOH-2-methyloctyl) phthalate	MCHPP MCINP MCIOP MCMHP MCOCH MCOMHP MCOMOP	ng/mL
Phthalates	mono (3-carboxypropyl) phthalate (multiple) mono-(2-ethyl-5-carboxypentyl) phthalate mono-2-ethyl-5- carboxypentyl terephthalate (DEHTP) mono (2-ethyl-5-hydroxyhexyl) phthalate mono-2-ethyl-5-hydroxyhexyl terephthalate (DEHTP) mono ethyl hexyl phthalate mono-(2-ethylhexyl) terephthalate	MCPP MECPP MECPTP MEHHP MEHHTP MEHP MEHP	ng/mL
Phthalates	mono-2-ethyl-5-oxohexylterephthalate monoethyl phthalate (DEP) Cyclohexane-1,2-dicarboxylic acid mono hydroxyisononyl ester (DINCH) mono-2-heptyl phthalate mono-hexyl phthalate mono-isobutyl phthalate (DiBP) mono-isodecyl phthalate	MEOHTP MEP MHNCH MHPP MHXP MIBP MIDP	ng/mL
Phthalates	mono-isopropyl phthalate mono-methyl phthalate mono-n-butylphthalate (BzBP, DnBP) monooxoisononyl phthalate (DiNP) mono-n-octyl phthalate mono-pentyl phthalate 2-(((Hydroxy-4-methyloctyl)oxy)carbonyl)cyclohexanecarboxylic Acid	MIPP MMP MNBP MONP MOP MPEP OHMINCH	ng/mL
Full Chemical Group Name Trace Elements in urine	Full Analyte Name Silver Aluminum Arsenic Barium Beryllium	Analyte Code Ag Al As Ba Be	Required Units ng/mL ng/mL ng/mL ng/mL ng/mL
Trace Elements in urine Trace Elements in urine Trace Elements in urine Trace Elements in urine	Cadmium Cobalt Chromium Caesium Copper Mercury Iodine	Cd Co Cr Cs Cu Hg	ng/mL ng/mL ng/mL ng/mL ng/mL ng/mL ng/mL ng/mL ng/mL
Trace Elements in urine	Lithium Manganese Molybdenum Nickel Lead Platinum Antimony Tin	Li Mn Mo Ni Pb Pt Sb	ng/mL ng/mL ng/mL ng/mL ng/mL ng/mL ng/mL ng/mL ng/mL
Trace Elements in urine	Strontium Tellurium Titanium Thallium Uranium Vanadium Tungsten	Sr Te Ti TI U V	ng/mL ng/mL ng/mL ng/mL ng/mL ng/mL ng/mL