Pace Analytical Services, LLC
Method Detection Limits and Reporting Limits
by EPA TO15 SIM Scan

Analyte	CAS #	MDL (ppbv)	PRL (ppbv)	MW	MDL (ug/m^3)	PRL (ug/m^3)	LCS Lower	LCS Upper	DUP RPD
1,1,1-Trichloroethane	*71-55-6*	*0.00448*	*0.01*	*133.4047*	*0.0248*	*0.0555*	*56*	*133*	*25*
1,1,2,2-Tetrachloroethane	*79-34-5*	*0.00552*	*0.01*	*167.8498*	*0.0385*	*0.0698*	*57*	*146*	*25*
1,1,2-Trichloroethane	*79-00-5*	*0.00482*	*0.01*	*133.4047*	*0.0267*	*0.0555*	*54*	*146*	*25*
1,1,2-Trichlorotrifluoroethane	76-13-1	0.0474	0.2	187.3762	0.369	1.56	63	139	25
1,1-Dichloroethane	*75-34-3*	*0.00362*	*0.01*	*98.9596*	*0.0149*	*0.0411*	*63*	*130*	*25*
1,1-Dichloroethene	*75-35-4*	*0.00500*	*0.01*	*96.9438*	*0.0202*	*0.0403*	*59*	*138*	*25*
1,2,4-Trichlorobenzene	120-82-1	0.127	0.5	181.4487	0.958	3.77	60	133	25
1,2,4-Trimethylbenzene	95-63-6	0.0345	0.2	120.1938	0.172	1.00	70	137	25
1,2-Dibromoethane	*106-93-4*	*0.00483*	*0.01*	*187.8616*	*0.0377*	*0.0781*	*55*	*148*	*25*
1,2-Dichlorobenzene	95-50-1	0.0533	0.2	147.0036	0.326	1.22	70	137	25
1,2-Dichloroethane	*107-06-2*	*0.00732*	*0.01*	*98.9596*	*0.0301*	*0.0411*	*61*	*130*	*25*
1,2-Dichloropropane	*78-87-5*	*0.00262*	*0.01*	*112.9864*	*0.0123*	*0.0470*	*60*	*140*	*25*
1,3,5-Trimethylbenzene	108-67-8	0.0824	0.2	120.1938	0.412	1.00	70	133	25
1,3-Butadiene	*106-99-0*	*0.00956*	*0.01*	*54.0914*	*0.0215*	*0.0225*	*65*	*138*	*25*
1,3-Dichlorobenzene	541-73-1	0.07630	0.2	147.0036	0.466	1.22	70	137	25
1,4-Dichlorobenzene	106-46-7	0.0358	0.2	147.0036	0.219	1.22	70	134	25
2-Butanone (MEK)	78-93-3	0.0676	1	72.1057	0.203	3.00	65	143	25
2-Hexanone	591-78-6	0.147	1	100.1589	0.612	4.16	60	148	25
2-Propanol	67-63-0	0.500	1	60.1	1.25	2.50	65	135	25
4-Ethyltoluene	622-96-8	0.0429	0.2	120.1938	0.214	1.00	70	132	25
4-Methyl-2-pentanone (MIBK)	108-10-1	0.0854	1	100.1602	0.356	4.16	70	135	25
Acetone	67-64-1	0.623	1	58.0798	1.50	2.41	59	132	25
Benzene	*71-43-2*	*0.00496*	*0.01*	*78.1134*	*0.0161*	*0.0325*	*59*	*133*	*25*
Benzyl Chloride	100-44-7	0.0449	0.2	126.58	0.236	1.05	56	150	25
Bromodichloromethane	*75-27-4*	*0.00412*	*0.01*	*163.8289*	*0.0281*	*0.0681*	*60*	*133*	*25*
Bromoform	75-25-2	0.0658	0.2	252.7309	0.691	2.10	69	150	25
Bromomethane	74-83-9	0.0526	0.2	94.9387	0.208	0.789	61	141	25
Carbon Disulfide	75-15-0	0.0566	0.2	76.131	0.179	0.633	66	134	25
Carbon tetrachloride	*56-23-5*	*0.00515*	*0.01*	*153.823*	*0.0329*	*0.0639*	*56*	*138*	*25*
Chlorobenzene	108-90-7	0.0382	0.2	112.5585	0.179	0.936	70	130	25
Chloroethane	75-00-3	0.0762	0.2	64.5145	0.204	0.536	65	143	25

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Chloroform	*67-66-3*	*0.00426*	*0.01*	*119.3779*	*0.0211*	*0.0496*	*66*	*130*	*25*

Chloromethane	74-87-3	0.0637	0.2	50.4877	0.134	0.420	58	140	25
cis-1,2-Dichloroethene	*156-59-2*	*0.00348*	*0.01*	*96.9438*	*0.0140*	*0.0403*	*65*	*130*	*25*
cis-1,3-Dichloropropene	*10061-01-5*	*0.00588*	*0.01*	*110.9706*	*0.0271*	*0.0461*	*40*	*150*	*25*
Cyclohexane	110-82-7	0.0648	0.2	84.1608	0.227	0.700	70	133	25
Dibromochloromethane	124-48-1	0.0035	0.2	208.2799	0.030	1.732	46	145	25
Dichlorodifluoromethane	75-71-8	0.0827	0.2	120.9138	0.416	1.01	69	130	25
Dichlorotetrafluoroethane	76-14-2	0.0622	0.2	170.9216	0.442	1.42	68	130	25
Ethanol	64-17-5	0.243	0.5	46.07	0.465	0.958	65	146	25
Ethyl Acetate	141-78-6	0.0534	0.2	88.106	0.196	0.733	68	136	25
Ethyl Benzene	100-41-4	0.0388	0.2	106.167	0.171	0.883	70	133	25
Hexachlorobutadiene	87-68-3	0.0802	0.2	260.762	0.869	2.17	59	140	25
m&p-Xylene	106-42-3	0.0791	0.4	106.167	0.349	1.77	70	133	25
Methyl Tert Butyl Ether	1634-04-4	0.182	1	88.1492	0.667	3.66	70	132	25
Methylene chloride	75-0902	0.431	1	84.9328	1.52	3.53	67	132	25
Naphthalene	91-20-3	0.112	0.5	128.1732	0.597	2.66	55	136	25
n-Heptane	142-82-5	0.0504	0.2	100.2034	0.210	0.833	64	136	25
n-Hexane	110-54-3	0.0929	0.2	86.1766	0.333	0.716	70	130	25
o-Xylene	95-47-6	0.0840	0.2	106.167	0.371	0.883	70	132	25
Propylene	115-07-1	0.0895	0.2	42.0804	0.157	0.350	37	150	25
Styrene	100-42-5	0.0386	0.2	104.1512	0.167	0.866	70	139	25
Tetrachloroethene	*127-18-4*	*0.00440*	*0.01*	*165.834*	*0.0303*	*0.0689*	*61*	*142*	*25*
Tetrahydrofuran	109-99-9	0.0913	0.2	72.1066	0.274	0.600	62	141	25
Toluene	108-88-3	0.0416	0.2	92.1402	0.159	0.766	70	130	25
trans-1,2-dichloroethene	*156-60-5*	*0.00520*	*0.01*	*96.9438*	*0.0210*	*0.0403*	*67*	*131*	*25*
trans-1,3-Dichloropropene	*10061-02-6*	*0.00610*	*0.01*	*110.9706*	*0.0281*	*0.0461*	*34*	*150*	*25*
Trichloroethene	*79-01-6*	*0.00563*	*0.01*	*131.3889*	*0.0308*	*0.0546*	*58*	*141*	*25*
Trichlorofluoromethane	75-69-4	0.0732	0.2	137.3684	0.418	1.14	59	140	25
Vinyl Acetate	108-05-4	0.0465	0.2	86.0902	0.166	0.716	57	150	25
Vinyl chloride	*75-01-4*	*0.00985*	*0.01*	*62.4987*	*0.0256*	*0.0260*	*61*	*136*	*25*

SIM analytes on 10AIR7 only.

EXTRA ANALYTES (available upon request at an additional cost)

							LCS		DUP
Analyte	**CAS #**	**MDL (ppbv)**	**PRL (ppbv)**	**MW**	**MDL (ug/m^3)**	**PRL (ug/m^3)**	**Lower**	**Upper**	**RPD**
1,2,3-Trimethylbenzene	526-73-8	0.0440	0.2	120.19	0.220	1.00	69	150	25
1,4-Dioxane	123-91-1	0.0966	1	88.1051	0.354	3.66	70	145	25
2,2,4-Trimethylpentane	540-84-1	0.0909	0.5	114.22	0.432	2.37	70	140	25

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Acrolein	107-02-8	0.110	0.5	56.06	0.256	1.17	65	150	25
Acrylonitrile	107-13-1	0.148	0.5	53.06	0.326	1.10	64	142	25
Allyl Chloride	107-05-1	0.114	0.5	76.525	0.363	1.59	60	147	25
Chlorodifluoromethane	75-45-6	0.0677	0.2	86.47	0.243	0.719	68	142	25
Di-isopropyl Ether	108-20-3	0.0410	1	102.1748	0.174	4.25	70	136	25
Ethyl Tert-Butyl Ether	637-92-3	0.211	1	102.1748	0.896	4.25	70	136	25
Isopentane	78-78-4	0.0704	0.2	72.15	0.211	0.600	44	150	25
Isopropylbenzene	98-82-8	0.0660	0.5	120.194	0.330	2.50	70	133	25
Methyl Methacrylate	80-62-6	0.0877	0.2	100.12	0.365	0.832	47	150	25
Methylcyclohexane	108-87-2	0.0849	0.2	98.186	0.347	0.816	70	137	25
N-Butylbenzene	104-51-8	0.101	0.5	134.2206	0.564	2.79	70	148	25
N-Propylbenzene	103-65-1	0.0402	0.5	120.1938	0.201	2.50	70	145	25
p-Isopropyltoluene	99-87-6	0.0333	0.2	134.22	0.186	1.12	70	143	25
Sec- Butylbenzene	135-98-8	0.0426	0.5	134.2206	0.238	2.79	70	142	25
Tert Amyl Methyl Ether	994-05-8	0.0385	1	102.1748	0.164	4.25	70	135	25
Tert Butyl Alcohol (TBA)	75-65-0	0.116	1	74.12	0.357	3.08	63	143	25
Tert-Butyl Benzene	98-06-6	0.0478	0.2	166.217	0.330	1.38	70	142	25
Vinyl Bromide	593-60-2	0.0517	1	106.95	0.230	4.45	70	140	25
THC as Gas (C4-C12)		11.95	23.90		51.9	104	59	150	25
Xylene (Total)	1330-20-7	0.0840	0.6	106.17	0.371	2.65	70	138	25

Surrogates								
1,4-Dichlorobenzene-d4 (S)	3855-82-1						30	150
Hexane-d14 (S)	21666-38-6						30	150
Toluene-d8 (S)	2037-26-5						30	150

Highlighted cells are calculated results