CAS #	Compound	Potential COC?	RSL Cancer Risk = 1E-06
71-55-6	1,1,1-Trichloroethane	no	-
79-00-5	1,1,2-Trichloroethane	no	0.18
95-63-6	1,2,4-Trimethylbenzene	no	-
95-50-1	1,2-Dichlorobenzene	no	-
107-06-2	1,2-Dichloroethane	no	0.11
108-67-8	1,3,5-Trimethylbenzene	no	-
541-73-1	1,3-Dichlorobenzene	no	-
106-46-7	1,4-Dichlorobenzene	no	0.26
71-43-2	Benzene	yes	0.36
56-23-5	Carbon Tetrachloride	no	0.47
108-90-7	Chlorobenzene	no	-
67-66-3	Chloroform	no	0.12
156-59-2	cis-1,2-Dichloroethene	no	-
110-82-7	Cyclohexane	no	-
108-94-1	Cyclohexanone	no	-
141-78-6	Ethyl Acetate	no	-
100-41-4	Ethylbenzene	no	1.1
540-84-1	Isooctane	no	-
67-63-0	Isopropanol	no	-
98-82-8	Isopropylbenzene	no	-
179601-23-1	m,p-Xylenes	no	-
67-56-1	Methanol	no	-
80-62-6	Methyl Methacrylate	no	-
75-09-2	Methylene Chloride	no	100
1634-04-4	Methyl-t-butyl ether	no	11
123-86-4	n-Butyl Acetate	no	-
124-18-5	n-Decane	no	-
142-82-5	n-Heptane	no	-
110-54-3	n-Hexane	no	-
111-84-2	n-Nonane	no	-
111-65-9	n-Octane	no	-
95-47-6	o-Xylene	no	-
100-42-5	Styrene	no	-
127-18-4	Tetrachloroethene	no	11

109-99-9	Tetrahydrofuran (THF)	no	-
108-88-3	Toluene	no	-
156-60-5	trans-1,2-dichloroethene	no	-
79-01-6	Trichloroethene	no	0.48
75-01-4	Vinyl Chloride	no	0.17

All concentrations in micrograms per cubic meter (µg/m3)
Green shading indicates laboratory method reporting limit is less than the screenin
Red shading indicates laboratory method reporting limit equals or exceeds the scre

RSL		EPA TO17 Passive (Radiello) Option			
Non-cancer HQ = 0.1	Screening Level	ALS - Thermally Desorbed	ALS - Chemically Descrobed	Pace	ALS - Thermally Desorbed
		Ex. 4 - CBI			
		14 Day Exposure			7 Day Exposure
		Method Reporting Limit (ug/m3)			
520	not a PCOC	NR	1.6	1.4	0.02
0.021	not a PCOC	NR	NR	NR	0.02
0.73	not a PCOC	0.01	2.0	2	0.02
21	not a PCOC	0.01	NR	NR	0.02
0.73	not a PCOC	NR	1.3	NR	NR
-	not a PCOC	0.01	-	2	0.02
-	not a PCOC	0.01	NR	NR	0.02
83	not a PCOC	0.01	1.9	NR	0.02
3.1	0.36	0.04	1.2	1.2	0.07
10	not a PCOC	NR	1.5	NR	NR
5.2	not a PCOC	NR	1.5	NR	NR
10	not a PCOC	NR	1.3	NR	NR
-	not a PCOC	NR	NR	1.3	NR
630	not a PCOC	NR	1.8	NR	NR
73	not a PCOC	NR	1.5	NR	NR
7.3	not a PCOC	NR	1.3	NR	NR
100	not a PCOC	0.01	1.5	1.5	0.02
-	not a PCOC	NR	1.8	NR	NR
730	not a PCOC	NR	1.9	NR	NR
42	not a PCOC	NR	NR	1.7	NR
10	not a PCOC	0.02	2.8	1.5	0.04
2100	not a PCOC	NR	0.8	NR	NR
73	not a PCOC	NR	1.5	NR	NR
63	not a PCOC	NR	1.1	NR	NR
310	not a PCOC	NR	NR	1.5	NR
-	not a PCOC	NR	1.7	NR	NR
-	not a PCOC	NR	2.3	NR	NR
-	not a PCOC	NR	1.7	NR	NR
73	not a PCOC	NR	1.5	NR	NR
2.1	not a PCOC	NR	2.1	NR	NR
-	not a PCOC	NR	1.9	NR	NR
10	not a PCOC	0.01	1.5	1.4	0.02
100	not a PCOC	0.01	1.6	NR	0.02
4.2	not a PCOC	NR	1.7	1.7	0.02

210	not a PCOC	NR	1.3	NR	NR
520	not a PCOC	0.01	1.3	1.3	0.02
-	not a PCOC	NR	NR	1.3	NR
0.21	not a PCOC	NR	1.4	NR	0.02
10	not a PCOC	NR	NR	12.9	NR

g level, if any.
ening level, if any.

llo) Option		
	ALS - Chemically Descrobed	Pace
	Ex. 4 - CBI	
7 Day Exposure		
t (ug/m3)		
	3.2	2.9
	NR	NR
	4.0	4
	NR	NR
	2.6	NR
	-	4
	NR	NR
	3.9	NR
	2.5	2.5
	3.0	NR
	2.9	NR
	2.6	NR
	NR	2.6
	3.7	NR
	2.9	NR
	2.5	NR
	2.9	2.9
	3.6	NR
	3.8	NR
	NR	3.4
	5.7	3.1
	1.6	NR
	2.9	NR
	2.2	NR
	NR	3.1
	3.3	NR
	4.6	NR
	3.4	NR
	3.0	NR
	4.1	NR
	3.7	NR
	3.1	2.8
	3.3	NR
	3.4	3.4

2.7	NR
2.7	2.7
NR	2.6
2.9	NR
NR	25.8

ALS Environmental Air Quality Laboratory
Volatile Organic Compounds (VOCs)
EPA Method TO-17 Standard Compound List

Radiello Passive Sampler Example Report - VOCs in Air

	CAS #	Compound	ng/tube	Uptake Rate	Max Exposure	MRL (µg/m³)			
			MRL	mL/min	(days)	14 Day Exposure	7 Day Exposure	3 Day Exposure	8 Hour Exposure
	71-55-6	1,1,1-Trichloroethane	5.0	20.0	7	-	0.02	0.06	0.52
	71-43-2	Benzene	20.0	27.8	7	-	0.07	0.17	1.50
	71-43-2	Benzene	20.0	26.8	14	0.04	0.07	0.17	1.55
	79-01-6	Trichloroethene	5.0	27.1	7	-	0.02	0.04	0.38
*	79-00-5	1,1,2-Trichloroethane	5.0	20.0	7	-	0.02	0.06	0.52
	108-88-3	Toluene	5.0	30.0	14	0.01	0.02	0.04	0.35
	127-18-4	Tetrachloroethene	5.0	25.4	7	-	0.02	0.05	0.41
	100-41-4	Ethylbenzene	5.0	25.7	14	0.01	0.02	0.05	0.41
	179601-23-1	m,p-Xylenes	10.0	26.6	14	0.02	0.04	0.09	0.78
	100-42-5	Styrene	5.0	27.1	14	0.01	0.02	0.04	0.38
	95-47-6	o-Xylene	5.0	24.6	14	0.01	0.02	0.05	0.42
*	108-67-8	1,3,5-Trimethylbenzene	5.0	21.9	14	0.01	0.02	0.05	0.48
	95-63-6	1,2,4-Trimethylbenzene	5.0	21.9	14	0.01	0.02	0.05	0.48
*	541-73-1	1,3-Dichlorobenzene	5.0	22.0	14	0.01	0.02	0.05	0.47
	106-46-7	1,4-Dichlorobenzene	5.0	22.0	14	0.01	0.02	0.05	0.47
*	95-50-1	1,2-Dichlorobenzene	5.0	22.0	14	0.01	0.02	0.05	0.47

Note: Benzene RL elevated due to inherent sorbent background levels.

* Denotes that an uptake rate for the specific compound has not been established, so the uptake rate for a similar compound was used.

Please note that the uptake rates are established by Fondazione Salvatore Maugeri IRCCS

WLLFOIA4312 - 015 - 0166092

ALS Environmental Air Quality Laboratory
Volatile Organic Compounds (VOCs)
Chemical Desorption Standard Compound List

Radiello Passive Sampler Example Report - VOCs in Air

CAS #	Compound	µg/tube	Uptake Rate	Max Exposure	MRL (µg/m³)			
		MRL	mL/min	(days)	14 Day Exposure	7 Day Exposure	3 Day Exposure	8 Hour Exposure
71-55-6	1,1,1-Trichloroethane	2.0	62	14	1.6	3.2	7.5	67.2
95-63-6	1,2,4-Trimethylbenzene	2.0	50	14	2.0	4.0	9.3	83.3
107-06-2	1,2-Dichloroethane	2.0	77	14	1.3	2.6	6.0	54.1
106-46-7	1,4-Dichlorobenzene	2.0	51	14	1.9	3.9	9.1	81.7
71-43-2	Benzene	2.0	80	14	1.2	2.5	5.8	52.1
123-86-4	n-Butyl Acetate	2.0	60	14	1.7	3.3	7.7	69.4
56-23-5	Carbon Tetrachloride	2.0	67	14	1.5	3.0	6.9	62.2
108-90-7	Chlorobenzene	2.0	68	14	1.5	2.9	6.8	61.3
67-66-3	Chloroform	2.0	75	14	1.3	2.6	6.2	55.6
110-82-7	Cyclohexane	2.0	54	14	1.8	3.7	8.6	77.2
108-94-1	Cyclohexanone	2.0	68	14	1.5	2.9	6.8	61.3
75-09-2	Methylene Chloride	2.0	90	14	1.1	2.2	5.1	46.3
141-78-6	Ethyl Acetate	2.0	78	14	1.3	2.5	5.9	53.4
100-41-4	Ethylbenzene	2.0	68	14	1.5	2.9	6.8	61.3
540-84-1	Isooctane	2.0	55	14	1.8	3.6	8.4	75.8
67-63-0	Isopropanol	2.0	52	14	1.9	3.8	8.9	80.1
179601-23-1	m,p-Xylenes	4.0	70	14	2.8	5.7	13.2	119.0
67-56-1	Methanol	2.0	125	14	0.8	1.6	3.7	33.3
80-62-6	Methyl Methacrylate	2.0	68	14	1.5	2.9	6.8	61.3
124-18-5	n-Decane	2.0	43	14	2.3	4.6	10.8	96.9
142-82-5	n-Heptane	2.0	58	14	1.7	3.4	8.0	71.8
110-54-3	n-Hexane	2.0	66	14	1.5	3.0	7.0	63.1
111-84-2	n-Nonane	2.0	48	14	2.1	4.1	9.6	86.8
111-65-9	n-Octane	2.0	53	14	1.9	3.7	8.7	78.6
95-47-6	o-Xylene	2.0	65	14	1.5	3.1	7.1	64.1
100-42-5	Styrene	2.0	61	14	1.6	3.3	7.6	68.3
127-18-4	Tetrachloroethene	2.0	59	14	1.7	3.4	7.8	70.6
109-99-9	Tetrahydrofuran (THF)	2.0	74	14	1.3	2.7	6.3	56.3
108-88-3	Toluene	2.0	74	14	1.3	2.7	6.3	56.3
79-01-6	Trichloroethene	2.0	69	14	1.4	2.9	6.7	60.4

Please note that the uptake rates are established by Fondazione Salvatore Maugeri IRCCS

WLLFOIA4312 - 015 - 0166093

Analyte	CAS #	on column MDL (ng)
1,2,4-Trimethylbenzene	95-63-6	0.56
1,3,5-Trimethylbenzene	108-67-8	0.56
Benzene	71-43-2	0.57
cis-1,2-Dichloroethene	156-59-2	0.37
Ethylbenzene	100-41-4	0.49
Isopropylbenzene	98-82-8	0.51
m&p-Xylene	106-42-3	0.46
Methyl-t-butyl ether	1634-04-4	0.46
o-Xylene	95-47-6	0.51
Tetrachloroethene	127-18-4	0.65
Toluene	108-88-3	0.59
trans-1,2-dichloroethene	156-60-5	0.46
Trichloroethene	79-01-6	0.58
Vinyl Chloride	75-01-4	9.5

* Radiello sampling rates

** no Radiello published sampling rate used 1,2-DCA rate of 77.

on column PRL (ng)	LCS Lower	DUP Upper	RPD	Total Min SR*		480 min 8 hour RL ug/m3	1440 min 24 hour RL ug/m3	2880 min 48 hour RL ug/m3
2	70	130	30	50		83.3	27.8	13.9
2	70	130	30	50		83.3	27.8	13.9
2	70	130	30	80		52.1	17.4	8.7
2	70	130	30	77		54.1	18	9
2	70	130	30	68		61.3	20.4	10.2
2	70	130	30	58		71.8	23.9	12
2	70	130	30	65		64.1	21.4	10.7
2	70	130	30	65		64.1	21.4	10.7
2	70	130	30	70		59.5	19.8	9.9
2	70	130	30	59		70.6	23.5	11.8
2	70	130	30	74		56.3	18.8	9.4
2	70	130	30	77		54.1	18	9
2	70	130	30	69		60.4	20.1	10.1
20	70	130	30	77	**	541.1	180.4	90.2

10080 min	20160 min	30240 min
One week RL	Two week RL	Three week RL
ug/m3	ug/m3	ug/m3
4	2	1.32
4	2	1.32
2.5	1.2	0.83
2.6	1.3	0.86
2.9	1.5	0.97
3.4	1.7	1.14
3.1	1.5	1.02
3.1	1.5	1.02
2.8	1.4	0.94
3.4	1.7	1.12
2.7	1.3	0.89
2.6	1.3	0.86
2.9	1.4	0.96
25.8	12.9	8.6