



**EMSL ANALYTICAL, INC.**  
 200 Route 130 North  
 Cinnaminson, NJ 08077  
 Telephone: (856)858-4800 FAX: (856)858-4571  
[to15lab@EMSL.com](mailto:to15lab@EMSL.com) | <http://www.EMSL.com>

EMSL ORDER ID: 491800115  
 EMSL CUSTOMER ID: EMSL50  
 EMSL SAMPLE ID: 491800115-0001  
 CUSTOMER SAMPLE ID: VOC-01

**Attention:** EMSL Analytical, Inc  
 200 US Route 130 North  
 Cinnaminson, NJ 08077

**Customer PO:**  
**EMSL Project ID:**  
**Project Name:** USEPA TO-15 Sample Report

**Phone:** 856-858-4800  
**Email:** [to15lab@EMSL.com](mailto:to15lab@EMSL.com)

**Collected:** 10/22/2020 10:12  
**Received:** 10/23/2020 8:32  
**Analyzed:** See Results  
**Reported:** 10/23/2020

Analysis Initial	Analysis Date	Analyst Init.	Lab File ID	Canister ID	Sample Vol.	Dil. Factor
Dilution1	10/22/2020	KW	K14736.D	HD4365	250 cc	1
	10/22/2020	KW	K14753.D	HD4365	50 cc	5

### Indiana Department of Environmental Management- Screening Levels

Target Compounds	Tox. Basis	CAS#	MW	Result ppbv	Q	Result ug/m3	Residential Subslab Soil Gas ug/m3	Non-Residential Subslab Soil Gas ug/m3
Propylene	NC	115-07-1	42.08	ND		ND	N.E.	N.E.
Freon 12(Dichlorodifluoromethane)	NC	75-71-8	120.90	ND		ND	3333	14667
Freon 114(1,2-Dichlorotetrafluoroethan	--	76-14-2	170.90	ND		ND	N.E.	N.E.
Chloromethane	NC	74-87-3	50.49	0.78		1.6	3133	13000
n-Butane	--	106-97-8	58.12	65	D	160	N.E.	N.E.
Vinyl chloride	C	75-01-4	62.50	ND		ND	56.7	933
1,3-Butadiene	C	106-99-0	54.09	ND		ND	31.3	137
Bromomethane	NC	74-83-9	94.94	ND		ND	173	733
Chloroethane	NC	75-00-3	64.52	ND		ND	333333	1466667
Ethanol	--	64-17-5	46.07	450	DE	850	N.E.	N.E.
Bromoethene(Vinyl bromide)	C	593-60-2	106.90	ND		ND	29.3	127
Freon 11(Trichlorofluoromethane)	--	75-69-4	137.40	ND		ND	N.E.	N.E.
Isopropyl alcohol(2-Propanol)	NC	67-63-0	60.10	17		41	7000	29333
Freon 113(1,1,2-Trichlorotrifluoroethan	NC	76-13-1	187.40	ND		ND	173333	733333
Acetone	NC	67-64-1	58.08	48	D	120	1066667	4666667
1,1-Dichloroethene	NC	75-35-4	96.94	ND		ND	7000	29333
Acetonitrile	NC	75-05-8	41.00	ND		ND	2100	8667
Tertiary butyl alcohol(TBA)	--	75-65-0	74.12	ND		ND	N.E.	N.E.
Bromoethane(Ethyl bromide)	--	74-96-4	108.00	ND		ND	N.E.	N.E.
3-Chloropropene(Allyl chloride)	C	107-05-1	76.53	ND		ND	33.3	147
Carbon disulfide	NC	75-15-0	76.14	ND		ND	24333	103333
Methylene chloride	C	75-09-2	84.94	ND		ND	21000	86667
Acrylonitrile	C	107-13-1	53.00	ND		ND	13.7	60.0
Methyl-tert-butyl ether(MTBE)	C	1634-04-4	88.15	ND		ND	3667	15667
trans-1,2-Dichloroethene	--	156-60-5	96.94	ND		ND	N.E.	N.E.
n-Hexane	NC	110-54-3	86.17	0.80		2.8	24333	103333
1,1-Dichloroethane	C	75-34-3	98.96	ND		ND	600	2567
Vinyl acetate	NC	108-05-4	86.00	ND		ND	7000	29333
2-Butanone(MEK)	NC	78-93-3	72.10	1.5		4.4	173333	733333
cis-1,2-Dichloroethene	--	156-59-2	96.94	ND		ND	N.E.	N.E.
Ethyl acetate	NC	141-78-6	88.10	4.4		16	2433	10333
Chloroform	C	67-66-3	119.40	1.0		5.1	40.0	177
Tetrahydrofuran	NC	109-99-9	72.11	ND		ND	70000	293333
1,1,1-Trichloroethane	NC	71-55-6	133.40	ND		ND	173333	733333
Cyclohexane	NC	110-82-7	84.16	ND		ND	210000	866667
2,2,4-Trimethylpentane(Isooctane)	--	540-84-1	114.20	0.85		4.0	N.E.	N.E.
Carbon tetrachloride	C	56-23-5	153.80	ND		ND	157	667
n-Heptane	NC	142-82-5	100.20	ND		ND	14000	60000
1,2-Dichloroethane	C	107-06-2	98.96	ND		ND	36.7	157
Benzene	C	71-43-2	78.11	1.7		5.4	120	533
Trichloroethene	C	79-01-6	131.40	ND		ND	70.0	293
1,2-Dichloropropane	C	78-87-5	113.00	ND		ND	140	600
Methyl Methacrylate	NC	80-62-6	100.12	ND		ND	24333	103333
Bromodichloromethane	C	75-27-4	163.80	ND		ND	25.3	110
1,4-Dioxane	C	123-91-1	88.12	ND		ND	187	833
4-Methyl-2-pentanone(MIBK)	NC	108-10-1	100.20	ND		ND	103333	433333



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Target Compounds	Tox. Basis	CAS#	MW	Result ppbv	Q	Result ug/m3	Residential Subslab Soil Gas ug/m3	>	Non-Residential Subslab Soil Gas ug/m3	>
cis-1,3-Dichloropropene**	C	10061-01-5	111.00	ND		ND	233		1033	
Toluene	NC	108-88-3	92.14	3.7		14	173333		733333	
trans-1,3-Dichloropropene**	C	10061-02-6	111.00	ND		ND	233		1033	
1,1,2-Trichloroethane	C	79-00-5	133.40	ND		ND	7.00		29.3	
2-Hexanone(MBK)	NC	591-78-6	100.10	ND		ND	1033		4333	
Tetrachloroethene	C	127-18-4	165.80	3.0		20	1400		6000	
Dibromochloromethane	--	124-48-1	208.30	ND		ND	N.E.		N.E.	
1,2-Dibromoethane	C	106-93-4	187.80	ND		ND	1.57		6.67	
Chlorobenzene	NC	108-90-7	112.60	ND		ND	1733		7333	
Ethylbenzene	C	100-41-4	106.20	0.63		2.7	367		1633	
Xylene (p,m)	NC	1330-20-7	106.20	1.9		8.3	3333		14667	
Xylene (Ortho)	NC	95-47-6	106.20	0.74		3.2	3333		14667	
Styrene	NC	100-42-5	104.10	ND		ND	33333		146667	
Isopropylbenzene (cumene)	NC	98-82-8	120.19	ND		ND	14000		60000	
Bromoform	C	75-25-2	252.80	ND		ND	867		3667	
1,1,1,2-Tetrachloroethane	C	79-34-5	167.90	ND		ND	16.0		70.0	
4-Ethyltoluene	--	622-96-8	120.20	1.3		6.4	N.E.		N.E.	
1,3,5-Trimethylbenzene	NC	108-67-8	120.20	ND		ND	2100		8667	
2-Chlorotoluene	--	95-49-8	126.60	ND		ND	N.E.		N.E.	
1,2,4-Trimethylbenzene	NC	95-63-6	120.20	1.7		8.2	2100		8667	
1,3-Dichlorobenzene	--	541-73-1	147.00	ND		ND	N.E.		N.E.	
1,4-Dichlorobenzene	C	106-46-7	147.00	ND		ND	86.7		367	
Benzyl chloride	C	100-44-7	126.00	ND		ND	19.0		83.3	
1,2-Dichlorobenzene	NC	95-50-1	147.00	ND		ND	7000		29333	
1,2,4-Trichlorobenzene	NC	120-82-1	181.50	ND		ND	N.E.		N.E.	
Hexachloro-1,3-butadiene	C	87-68-3	260.80	ND		ND	43.3		187	
Naphthalene	C	91-20-3	128.17	ND		ND	8.30		36.0	

\*\*The concentrations of each isomer should be added if multiple isomers are present and compared to the total screening level.

The > column is used to flag exceedances as marked

**Exposure Limit Definitions**

RBC= Risk Based Concentration

**Agency Definitions/ References**

IDEM= Indiana Department of Environmental Management

**Reference**

Indiana Department of Environmental Management Screening Level Table, March 2018

**Carcinogenic (C) Exceedance**

Value exceeds the theoretical risk that 1 additional case of cancer will occur in a population of 1 million than statistically expected.

This is a theoretical risk and not an actual epidemiological one.

**Compound Exposure Definitions**

NE= No Limit Established LFC= Lowest Feasible Concentration NS= No Screening Value

**Qualifier Definitions**

B = Compound also found in method blank.

E= Estimated concentration exceeding upper calibration range ND = Non Detect

D= Result reported from diluted analysis J= Concentration estimated between lower cal.

**NonCarcinogenic (NC) Exceedance**

Value exceeds the theoretical risk that 1 in a population of 100,000 will experience deleterious health effects.

This is a theoretical risk and not an actual epidemiological one.