Table V.3-5/14a Detailed VOC Results, Sandia Building 807, May 14, 2001

Air Contaminant	514-V-01 Found (ng)	514-V-01 Air Conc. (mg/m^3)	514-V-02 Found (ng)	514-V-02 Air Conc. (mg/m^3)	514-V-03 Found (ng)	514-V-03 Air Conc. (mg/m^3)	Guide* Value (mg/m^3)	TLV/PEL** (8-hr TWA) (mg/m^3)
Alkanes								
C3 hydrocarbons		0.000		0.000		0.000		4508 (asphyx)
C4 hydrocarbons		0.000		0.000		0.000		1,900
C5 hydrocarbons	97	0.003	148	0.005	86	0.003		1,770
C6 hydrocarbons	36	0.001	98	0.003	37	0.001		1,760
n-hexane		0.000		0.000		0.000		176
C7 hydrocarbons	31	0.001		0.000		0.000		1640
C8 hydrocarbons		0.000		0.000	42	0.001		1,400
C9 hydrocarbons		0.000		0.000		0.000		1050
C10 hydrocarbons		0.000		0.000		0.000		
C11 hydrocarbons	26	0.001		0.000		0.000		
C12 hydrocarbons	30	0.001		0.000		0.000		
Other hydrocarbons	2420	0.083	3740	0.121	720	0.023		
Total Alkanes	2640	0.091	3986	0.129	885	0.028	0.100	
Aromatics								
benzene		0.000		0.000		0.000		1.6 (A1)
toluene	730	0.025	1600	0.052	520	0.016		188 (A4)
ethylbenzene		0.000		0.000		0.000		435
m,p-xylene	32	0.001	28	0.001		0.000		435 (A4)
o-xylene		0.000		0.000		0.000		435 (A4)
styrene		0.000		0.000		0.000		85 (A4)
4-ethyl toluene		0.000		0.000		0.000		
1,3,5-trimethylbenzene		0.000		0.000		0.000		122
1,2,4-trimethylbenzene		0.000		0.000		0.000		122
bis (2-ethylhexyl) phthalate		0.000	130	0.004	120	0.004		
Other aromatics		0.000	287	0.009		0.000		
Total Aromatics	762	0.026	2045	0.066	640	0.020	0.050	
Terpenes								
C10 Terpene	39	0.001	42	0.001		0.000		
Other Terpenes		0.000		0.000		0.000		
Total Terpenes	39	0.001	42	0.001	0	0.000	0.030	
Halocarbons								
dichlorodifluoromethane	100	0.003	120	0.004	100	0.003		4950 (A4)
chloromethane	230	0.008	410	0.013	200	0.006		103
tetradecafluorohexane	50	0.002	100	0.003	110	0.003		
Freon 114		0.000		0.000		0.000		6,990
vinyl chloride		0.000		0.000		0.000		2..6 (A1)
bromomethane		0.000		0.000		0.000		
chloroethane		0.000		0.000		0.000		
Freon 11	1700	0.059	2600	0.084	1100	0.035		5600 (C)
cis-1,2-dichloroethene		0.000		0.000		0.000		1,300
Freon 113	57	0.002	63	0.002	83	0.003		
methylene chloride		0.000		0.000		0.000		175 (A3)
trans-1,2-dichlorethene		0.000		0.000		0.000		790
1,1-dichloroethane		0.000		0.000		0.000		404 (A4)
1,1-dichloroethene		0.000		0.000		0.000		20 (A3)
chloroform		0.000		0.000		0.000		50 (A3)
1,1,1-trichloroethane		0.000		0.000		0.000		1900 (A4)
carbon tetrachloride	26	0.001		0.000		0.000		31 (A2)
1,2-dichloroethane		0.000		0.000		0.000		40 (A4)
trichloroethene		0.000		0.000		0.000		270
1,2-dichloropropane		0.000		0.000		0.000		345
bromodichloromethane		0.000		0.000		0.000		

Table V.3-5/14a Detailed VOC Results, Sandia Building 807, May 14, 2001

Air Contaminant	514-V-01 Found (ng)	514-V-01 Air Conc. (mg/m^3)	514-V-02 Found (ng)	514-V-02 Air Conc. (mg/m^3)	514-V-03 Found (ng)	514-V-03 Air Conc. (mg/m^3)	Guide* Value (mg/m^3)	TLV/PEL** (8-hr TWA) (mg/m^3)
cis-1,3-dichloropropene		0.000		0.000		0.000		5
trans-1,3-dichloropropene		0.000		0.000		0.000		5
1,1,2-trichloroethane		0.000		0.000		0.000		54
tetrachloroethene		0.000		0.000		0.000		170 (A3)
dibromochloromethane		0.000		0.000		0.000		
1,2-dibromoethane		0.000		0.000		0.000		[skin] (A3)
chlorobenzene		0.000		0.000		0.000		46 (A3)
bromoform		0.000		0.000		0.000		5 (A3)
1,1,2,2-tetrachloroethane		0.000		0.000		0.000		7 (A3)
benzyl chloride		0.000		0.000		0.000		5 (A3)
1,3-dichlorobenzene		0.000		0.000		0.000		
1,4-dichlorobenzene		0.000		0.000		0.000		60 (A3)
1,2-dichlorobenzene		0.000		0.000		0.000		150
1,2,4-trichlorobenzene		0.000		0.000		0.000		37 (C)
hexachlorobutadiene		0.000		0.000		0.000		0.2 (A3)
Other halocarbons	603	0.021	1450	0.047	1460	0.046		
Total Halocarbons	2766	0.095	4743	0.153	3053	0.096	0.030	
Esters								
vinyl acetate		0.000		0.000		0.000		35 (A3)
methyl ester acetic acid	130	0.004	220	0.007	190	0.006		
Other esters		0.000		0.000		0.000		n/a
Total Esters	130	0.004	220	0.007	190	0.006	0.020	
Aldehydes & Ketones								
acetone	240 #	0.008	360	0.012	230 #	0.007		1,180
2-butanone (MEK)	29	0.001	26	0.001	30	0.001		590
acetaldehyde	44	0.002	49	0.002	37	0.001		45 (A3)(C)
4-methyl, 2-pentanone		0.000		0.000	30	0.001		204
2-hexanone		0.000		0.000		0.000		20
2-propenal, 2-methyl		0.000		0.000		0.000		
Other Alds & Ketone		0.000	51	0.002		0.000		
Total Alds. & Ketones	313	0.011	486	0.016	327	0.010	0.020	
Other								
carbon disulfide		0.000		0.000		0.000		31
methyl t-butyl ether		0.000		0.000		0.000		144 (A3)
methenamine	52	0.002	110	0.004		0.000		
ethanol	74	0.003	130	0.004		0.000		1900
2-propanol		0.000		0.000	20	0.001		980
isopropyl palmitate	64	0.002		0.000		0.000		
Acids	65	0.002	356	0.011	76	0.002		
Other	41	0.001	49	0.002	150	0.005		
Total Other	296	0.010	645	0.021	246	0.008	0.050	
TOTAL VOC's	6946	0.240	12167	0.392	5341	0.168	0.300	

* From Seifert: achievable indoor levels that if met are unlikely to result in IAQ complaints or symptoms
** ACGIH Threshold Limit Value or OSHA PEL, whichever is lower.
A1=confirmed human carcinogen
A2=suspected human carcinogen
A3=confirmed animal carcinogen with unknown relevance to humans
C=Ceiling Limit

Table V.3-5/14b Detailed VOC Results, Sandia Building 807, May 14, 2001

Air Contaminant	514-V-04 Found (ng)	514-V-04 Air Conc. (mg/m^3)	514-V-05 Found (ng)	514-V-05 Air Conc. (mg/m^3)	514-V-06 Found (ng)	514-V-06 Air Conc. (mg/m^3)	Guide* Value (mg/m^3)	TLV/PEL** (8-hr TWA) (mg/m^3)
Alkanes								
C3 hydrocarbons		0.000		0.000		0.000		4508 (asphyx)
C4 hydrocarbons		0.000		0.000		0.000		1,900
C5 hydrocarbons	156	0.006	256	0.026	36	0.001		1,770
C6 hydrocarbons	100	0.004		0.000		0.000		1,760
n-hexane		0.000		0.000		0.000		176
C7 hydrocarbons	29	0.001		0.000		0.000		1640
C8 hydrocarbons		0.000		0.000	12	0.000		1,400
C9 hydrocarbons		0.000		0.000	10	0.000		1050
C10 hydrocarbons		0.000		0.000		0.000		
C11 hydrocarbons	33	0.001	20	0.002		0.000		
C12 hydrocarbons		0.000		0.000		0.000		
Other hydrocarbons	780	0.031	230	0.023		0.000		
Total Alkanes	1098	0.044	506	0.051	58	0.002	0.100	
Aromatics								
benzene		0.000		0.000		0.000		1.6 (A1)
toluene	380	0.015	190	0.019	60	0.002		188 (A4)
ethylbenzene		0.000		0.000		0.000		435
m,p-xylene		0.000		0.000		0.000		435 (A4)
o-xylene		0.000		0.000		0.000		435 (A4)
styrene		0.000		0.000		0.000		85 (A4)
4-ethyl toluene		0.000		0.000		0.000		
1,3,5-trimethylbenzene		0.000		0.000		0.000		122
1,2,4-trimethylbenzene		0.000		0.000		0.000		122
Other aromatics		0.000		0.000		0.000		
Total Aromatics	380	0.015	190	0.019	60	0.002	0.050	
Terpenes								
C10 Terpene	49	0.002	36	0.004		0.000		
Other Terpenes		0.000		0.000		0.000		
Total Terpenes	49	0.002	36	0.004	0	0.000	0.030	
Halocarbons								
dichlorodifluoromethane		0.000		0.000		0.000		4950 (A4)
chloromethane		0.000	210	0.021		0.000		103
tetradecafluorohexane	100	0.004	48	0.005		0.000		
Freon 114		0.000		0.000		0.000		6,990
Freon 141	34	0.001	55	0.006	10	0.000		
vinyl chloride		0.000		0.000		0.000		2..6 (A1)
bromomethane		0.000		0.000		0.000		
chloroethane		0.000		0.000		0.000		
Freon 11	580	0.023	340	0.034	2000	0.069		5600 (C)
cis-1,2-dichloroethene		0.000		0.000		0.000		1,300
Freon 113	58	0.002		0.000	27	0.001		
methylene chloride		0.000		0.000		0.000		175 (A3)
trans-1,2-dichlorethene		0.000		0.000		0.000		790
1,1-dichloroethane		0.000		0.000		0.000		404 (A4)
1,1-dichloroethene		0.000		0.000		0.000		20 (A3)
chloroform		0.000		0.000		0.000		50 (A3)
1,1,1-trichloroethane		0.000		0.000		0.000		1900 (A4)
carbon tetrachloride		0.000		0.000		0.000		31 (A2)
1,2-dichloroethane		0.000		0.000		0.000		40 (A4)
trichloroethene		0.000		0.000		0.000		270
1,2-dichloropropane		0.000		0.000		0.000		345
bromodichloromethane		0.000		0.000		0.000		

Table V.3-5/14b Detailed VOC Results, Sandia Building 807, May 14, 2001

Air Contaminant	514-V-04 Found (ng)	514-V-04 Air Conc. (mg/m^3)	514-V-05 Found (ng)	514-V-05 Air Conc. (mg/m^3)	514-V-06 Found (ng)	514-V-06 Air Conc. (mg/m^3)	Guide* Value (mg/m^3)	TLV/PEL** (8-hr TWA) (mg/m^3)
cis-1,3-dichloropropene		0.000		0.000		0.000		5
trans-1,3-dichloropropene		0.000		0.000		0.000		5
1,1,2-trichloroethane		0.000		0.000		0.000		54
tetrachloroethene		0.000		0.000		0.000		170 (A3)
dibromochloromethane		0.000		0.000		0.000		
1,2-dibromoethane		0.000		0.000		0.000		[skin] (A3)
chlorobenzene		0.000		0.000		0.000		46 (A3)
bromoform		0.000		0.000		0.000		5 (A3)
1,1,2,2-tetrachloroethane		0.000		0.000		0.000		7 (A3)
benzyl chloride		0.000		0.000		0.000		5 (A3)
1,3-dichlorobenzene		0.000		0.000		0.000		
1,4-dichlorobenzene		0.000		0.000		0.000		60 (A3)
1,2-dichlorobenzene		0.000		0.000		0.000		150
1,2,4-trichlorobenzene		0.000		0.000		0.000		37 (C)
hexachlorobutadiene		0.000		0.000		0.000		0.2 (A3)
Other halocarbons	1236	0.049	967	0.097	17	0.001		
Total Halocarbons	2008	0.080	1620	0.162	2054	0.071	0.030	
Esters								
vinyl acetate		0.000		0.000		0.000		35 (A3)
methyl ester acetic acid	170	0.007	230	0.023		0.000		
Other esters		0.000		0.000		0.000		n/a
Total Esters	170	0.007	230	0.023	0	0.000	0.020	
Aldehydes & Ketones								
acetone	260	0.010	120	0.012	#	0.000		1,180
2-butanone (MEK)	30	0.001		0.000		0.000		590
acetaldehyde	50	0.002	62	0.006		0.000		45 (A3)(C)
4-methyl, 2-pentanone	28	0.001		0.000		0.000		204
2-hexanone		0.000		0.000		0.000		20
2-propenal, 2-methyl		0.000		0.000		0.000		
Other Alds & Ketone	27	0.001		0.000		0.000		
Total Alds. & Ketones	395	0.016	182	0.018	0	0.000	0.020	
Other								
carbon disulfide		0.000		0.000		0.000		31
methyl t-butyl ether		0.000		0.000		0.000		144 (A3)
methenamine	42	0.002	22	0.002	76	0.003		
ethanol		0.000		0.000		0.000		1900
2-propanol	34	0.001		0.000		0.000		980
isopropyl palmitate	66	0.003		0.000		0.000		
Acids	31	0.001		0.000		0.000		
Other	140	0.006	48	0.005		0.000		
Total Other	313	0.013	70	0.007	76	0.003	0.050	
TOTAL VOC's	4413	0.177	2834	0.283	2248	0.078	0.300	

* From Seifert: achievable indoor levels that if met are unlikely to result in IAQ complaints or symptoms
** ACGIH Threshold Limit Value or OSHA PEL, whichever is lower.
A1=confirmed human carcinogen
A2=suspected human carcinogen
A3=confirmed animal carcinogen with unknown relevance to humans
C=Ceiling Limit

Table V.3-5/15a Detailed VOC Results, Sandia Building 807, May 15, 2001

Air Contaminant	515-V-01		515-V-02		515-V-03		Guide*	TLV/PEL**
	Found (ng)	Air Conc. (mg/m^3)	Found (ng)	Air Conc. (mg/m^3)	Found (ng)	Air Conc. (mg/m^3)	Value (mg/m^3)	(8-hr TWA) (mg/m^3)
Alkanes								
C3 hydrocarbons		0.000		0.000		0.000		4508 (asphyx)
C4 hydrocarbons		0.000		0.000		0.000		1,900
C5 hydrocarbons	267	0.009	221	0.007	140	0.005		1,770
C6 hydrocarbons		0.000	208	0.007	92	0.003		1,760
n-hexane		0.000		0.000		0.000		176
C7 hydrocarbons		0.000	71	0.002	65	0.002		1640
C8 hydrocarbons	387	0.012		0.000	39	0.001		1,400
C9 hydrocarbons	390	0.013		0.000	39	0.001		1050
C10 hydrocarbons	136	0.004		0.000		0.000		
C11 hydrocarbons	200	0.006	44	0.001	40	0.001		
C12 hydrocarbons		0.000		0.000		0.000		
Other hydrocarbons	2959	0.095	1410	0.045	2106	0.078		
Total Alkanes	4339	0.140	1954	0.063	2521	0.093	0.100	
Aromatics								
benzene	45	0.001	45	0.001	41	0.002		1.6 (A1)
toluene	730	0.024	150	0.005	580	0.021		188 (A4)
ethylbenzene		0.000		0.000		0.000		435
m,p-xylene	60	0.002	59	0.002	54	0.002		435 (A4)
o-xylene	28	0.001	26	0.001		0.000		435 (A4)
styrene		0.000		0.000		0.000		85 (A4)
4-ethyl toluene		0.000		0.000		0.000		
1,3,5-trimethylbenzene		0.000		0.000		0.000		122
1,2,4-trimethylbenzene	25	0.001	27	0.001		0.000		122
bis (2-ethylhexyl) phthalate		0.000	76	0.002	100	0.004		
Other aromatics	151	0.005	173	0.006	46	0.002		
Total Aromatics	1039	0.034	556	0.018	821	0.030	0.050	
Terpenes								
C10 Terpene	43	0.001		0.000	41	0.002		
Other Terpenes		0.000		0.000		0.000		
Total Terpenes	43	0.001	0	0.000	41	0.002	0.030	
Halocarbons								
dichlorodifluoromethane		0.000		0.000		0.000		4950 (A4)
chloromethane		0.000	120	0.004	130	0.005		103
tetradecafluorohexane		0.000	100	0.003	75	0.003		
Freon 114		0.000		0.000		0.000		6,990
Freon 141	120	0.004	39	0.001	41	0.002		
vinyl chloride		0.000		0.000		0.000		2.6 (A1)
bromomethane		0.000		0.000		0.000		
chloroethane		0.000		0.000		0.000		
Freon 11	46	0.001	310	0.010	350	0.013		5600 (C)
cis-1,2-dichloroethene		0.000		0.000		0.000		1,300
Freon 113		0.000	48	0.002	28	0.001		
methylene chloride		0.000		0.000		0.000		175 (A3)
trans-1,2-dichlorethene		0.000		0.000		0.000		790
1,1-dichloroethane		0.000		0.000		0.000		404 (A4)
1,1-dichloroethene		0.000		0.000		0.000		20 (A3)
chloroform		0.000		0.000		0.000		50 (A3)
1,1,1-trichloroethane		0.000		0.000		0.000		1900 (A4)
carbon tetrachloride		0.000		0.000		0.000		31 (A2)
1,2-dichloroethane		0.000		0.000		0.000		40 (A4)
trichloroethene		0.000		0.000		0.000		270
1,2-dichloropropane		0.000		0.000		0.000		345
bromodichloromethane		0.000		0.000		0.000		

Table V.3-5/15a Detailed VOC Results, Sandia Building 807, May 15, 2001

Air Contaminant	515-V-01 Found (ng)	515-V-01 Air Conc. (mg/m^3)	515-V-02 Found (ng)	515-V-02 Air Conc. (mg/m^3)	515-V-03 Found (ng)	515-V-03 Air Conc. (mg/m^3)	Guide* Value (mg/m^3)	TLV/PEL** (8-hr TWA) (mg/m^3)
cis-1,3-dichloropropene		0.000		0.000		0.000		5
trans-1,3-dichloropropene		0.000		0.000		0.000		5
1,1,2-trichloroethane		0.000		0.000		0.000		54
tetrachloroethene		0.000		0.000		0.000		170 (A3)
dibromochloromethane		0.000		0.000		0.000		
1,2-dibromoethane		0.000		0.000		0.000		[skin] (A3)
chlorobenzene		0.000		0.000		0.000		46 (A3)
bromoform		0.000		0.000		0.000		5 (A3)
1,1,2,2-tetrachloroethane		0.000		0.000		0.000		7 (A3)
benzyl chloride		0.000		0.000		0.000		5 (A3)
1,3-dichlorobenzene		0.000		0.000		0.000		
1,4-dichlorobenzene		0.000		0.000		0.000		60 (A3)
1,2-dichlorobenzene		0.000		0.000		0.000		150
1,2,4-trichlorobenzene		0.000		0.000		0.000		37 (C)
hexachlorobutadiene		0.000		0.000		0.000		0.2 (A3)
Other halocarbons		0.000	290	0.009	165	0.006		
Total Halocarbons	166	0.005	907	0.029	789	0.029	0.030	
Esters								
vinyl acetate		0.000		0.000		0.000		35 (A3)
methyl ester acetic acid		0.000	190	0.006	110	0.004		
Other esters		0.000		0.000		0.000		n/a
Total Esters	0	0.000	190	0.006	110	0.004	0.020	
Aldehydes & Ketones								
acetone		0.000	550	0.018	470	0.017		1,180
2-butanone (MEK)		0.000	33	0.001		0.000		590
acetaldehyde		0.000	46	0.001		0.000		45 (A3)(C)
4-methyl, 2-pentanone		0.000		0.000		0.000		204
2-hexanone		0.000		0.000		0.000		20
2-propenol, 2-methyl	44	0.001		0.000		0.000		
Other Alds & Ketone	181	0.006		0.000		0.000		
Total Alds. & Ketones	225	0.007	629	0.020	470	0.017	0.020	
Other								
carbon disulfide		0.000		0.000		0.000		31
methyl t-butyl ether		0.000		0.000		0.000		144 (A3)
methenamine		0.000		0.000	69	0.003		
ethanol		0.000		0.000		0.000		1900
2-propanol		0.000	260	0.008	90	0.003		980
isopropyl palmitate		0.000	110	0.004		0.000		
Acids	190	0.006	115	0.004	61	0.002		
Other		0.000	92	0.003	33	0.001		
Total Other	190	0.006	577	0.019	253	0.009	0.050	
TOTAL VOC's	6002	0.194	4813	0.155	5005	0.185	0.300	

* From Seifert: achievable indoor levels that if met are unlikely to result in IAQ complaints or symptoms
** ACGIH Threshold Limit Value or OSHA PEL, whichever is lower.
A1=confirmed human carcinogen
A2=suspected human carcinogen
A3=confirmed animal carcinogen with unknown relevance to humans
C=Ceiling Limit

Table V.3-5/15b Detailed VOC Results, Sandia Building 807, May 15, 2001

Air Contaminant	515-V-04 Found (ng)	515-V-04 Air Conc. (mg/m^3)	515-V-05 Found (ng)	515-V-05 Air Conc. (mg/m^3)	515-V-6 Found (ng)	515-V-6 Air Conc. (mg/m^3)	Guide* Value (mg/m^3)	TLV/PEL** (8-hr TWA) (mg/m^3)
Alkanes								
C3 hydrocarbons		0.000		0.000		0.000		4508 (asphyx)
C4 hydrocarbons		0.000		0.000	30	0.001		1,900
C5 hydrocarbons	191	0.006	465	0.015	210	0.008		1,770
C6 hydrocarbons	123	0.004	155	0.005	294	0.011		1,760
n-hexane		0.000		0.000		0.000		176
C7 hydrocarbons	97	0.003		0.000	31	0.001		1640
C8 hydrocarbons	279	0.009	309	0.010	27	0.001		1,400
C9 hydrocarbons	311	0.010	482	0.016		0.000		1050
C10 hydrocarbons	65	0.002	285	0.009		0.000		
C11 hydrocarbons	51	0.002		0.000		0.000		
C12 hydrocarbons		0.000		0.000		0.000		
Other hydrocarbons	1160	0.037	1100	0.035	49	0.002		
Total Alkanes	2277	0.073	2796	0.090	641	0.025	0.100	
Aromatics								
benzene	47	0.002	50	0.002	28	0.001		1.6 (A1)
toluene	130	0.004	480	0.015	110	0.004		188 (A4)
ethylbenzene		0.000		0.000		0.000		435
m,p-xylene	49	0.002	47	0.002		0.000		435 (A4)
o-xylene	25	0.001		0.000		0.000		435 (A4)
styrene		0.000		0.000		0.000		85 (A4)
4-ethyl toluene		0.000		0.000		0.000		
1,3,5-trimethylbenzene		0.000		0.000		0.000		122
1,2,4-trimethylbenzene	25	0.001		0.000		0.000		122
bis (2-ethylhexyl) phthalate	110	0.004	110	0.004	34	0.001		
Other aromatics	49	0.002		0.000	14	0.001		
Total Aromatics	435	0.014	687	0.022	186	0.007	0.050	
Terpenes								
C10 Terpene		0.000		0.000		0.000		
Other Terpenes		0.000		0.000		0.000		
Total Terpenes	0	0.000	0	0.000	0	0.000	0.030	
Halocarbons								
dichlorodifluoromethane		0.000		0.000		0.000		4950 (A4)
chloromethane	150	0.005	120	0.004	100	0.004		103
tetradecafluorohexane	42	0.001	66	0.002	14	0.001		
Freon 114		0.000		0.000		0.000		6,990
vinyl chloride		0.000		0.000		0.000		2.6 (A1)
bromomethane		0.000		0.000		0.000		
chloroethane		0.000		0.000		0.000		
Freon 11	390	0.013	310	0.010		0.000		5600 (C)
cis-1,2-dichloroethene		0.000		0.000		0.000		1,300
Freon 113	46	0.001	59	0.002	25	0.001		
methylene chloride	25	0.001	33	0.001		0.000		175 (A3)
trans-1,2-dichlorethene		0.000		0.000		0.000		790
1,1-dichloroethane		0.000		0.000		0.000		404 (A4)
1,1-dichloroethene		0.000		0.000		0.000		20 (A3)
chloroform		0.000		0.000		0.000		50 (A3)
1,1,1-trichloroethane		0.000		0.000		0.000		1900 (A4)
carbon tetrachloride		0.000		0.000		0.000		31 (A2)
1,2-dichloroethane		0.000		0.000		0.000		40 (A4)
trichloroethene		0.000		0.000		0.000		270
1,2-dichloropropane		0.000		0.000		0.000		345
bromodichloromethane		0.000		0.000		0.000		

Table V.3-5/15b Detailed VOC Results, Sandia Building 807, May 15, 2001

Air Contaminant	515-V-04 Found (ng)	515-V-04 Air Conc. (mg/m^3)	515-V-05 Found (ng)	515-V-05 Air Conc. (mg/m^3)	515-V-6 Found (ng)	515-V-6 Air Conc. (mg/m^3)	Guide* Value (mg/m^3)	TLV/PEL** (8-hr TWA) (mg/m^3)
cis-1,3-dichloropropene		0.000		0.000		0.000		5
trans-1,3-dichloropropene		0.000		0.000		0.000		5
1,1,2-trichloroethane		0.000		0.000		0.000		54
tetrachloroethene		0.000		0.000		0.000		170 (A3)
dibromochloromethane		0.000		0.000		0.000		
1,2-dibromoethane		0.000		0.000		0.000		[skin] (A3)
chlorobenzene		0.000		0.000		0.000		46 (A3)
bromoform		0.000		0.000		0.000		5 (A3)
1,1,2,2-tetrachloroethane		0.000		0.000		0.000		7 (A3)
benzyl chloride		0.000		0.000		0.000		5 (A3)
1,3-dichlorobenzene		0.000		0.000		0.000		
1,4-dichlorobenzene		0.000		0.000		0.000		60 (A3)
1,2-dichlorobenzene		0.000		0.000		0.000		150
1,2,4-trichlorobenzene		0.000		0.000		0.000		37 (C)
hexachlorobutadiene		0.000		0.000		0.000		0.2 (A3)
Other halocarbons	460	0.015	1030	0.033	152	0.006		
Total Halocarbons	1113	0.036	1618	0.052	291	0.011	0.030	
Esters								
vinyl acetate		0.000		0.000		0.000		35 (A3)
methyl ester acetic acid		0.000		0.000	240	0.009		
Other esters		0.000		0.000		0.000		n/a
Total Esters	0	0.000	0	0.000	240	0.009	0.020	
Aldehydes & Ketones								
acetone	470	0.015	530	0.017	79	0.003		1,180
2-butanone (MEK)	32	0.001	40	0.001		0.000		590
acetaldehyde		0.000		0.000	27	0.001		45 (A3)(C)
4-methyl, 2-pentanone	55	0.002		0.000		0.000		204
2-hexanone		0.000		0.000		0.000		20
2-propenal, 2-methyl		0.000		0.000		0.000		
Other Alds & Ketone		0.000	65	0.002		0.000		
Total Alds. & Ketones	557	0.018	635	0.020	106	0.004	0.020	
Other								
carbon disulfide		0.000		0.000		0.000		31
methyl t-butyl ether		0.000		0.000		0.000		144 (A3)
methenamine	50	0.002		0.000	24	0.001		
ethanol	68	0.002		0.000		0.000		1900
2-propanol	56	0.002	94	0.003		0.000		980
isopropyl palmitate	110	0.004	110	0.004		0.000		
Acids		0.000		0.000	93	0.004		
Other	36	0.001	227	0.007		0.000		
Total Other	320	0.010	431	0.014	117	0.005	0.050	
TOTAL VOC's	4702	0.152	6167	0.199	1581	0.062	0.300	

* From Seifert: achievable indoor levels that if met are unlikely to result in IAQ complaints or symptoms
** ACGIH Threshold Limit Value or OSHA PEL, whichever is lower.
A1=confirmed human carcinogen
A2=suspected human carcinogen
A3=confirmed animal carcinogen with unknown relevance to humans
C=Ceiling Limit

Table V.3-5/16a Detailed VOC Results, Sandia Building 807, May 16, 2001

Air Contaminant	516-V-01 Found (ng)	516-V-01 Air Conc. (mg/m^3)	516-V-02 Found (ng)	516-V-02 Air Conc. (mg/m^3)	516-V-3 Found (ng)	516-V-3 Air Conc. (mg/m^3)	Guide* Value (mg/m^3)	TLV/PEL** (8-hr TWA) (mg/m^3)
Alkanes								
C3 hydrocarbons		0.000		0.000		0.000		4508 (asphyx)
C4 hydrocarbons		0.000		0.000		0.000		1,900
C5 hydrocarbons	347	0.012	119	0.004	96	0.004		1,770
C6 hydrocarbons	291	0.010	43	0.002	25	0.001		1,760
n-hexane		0.000		0.000		0.000		176
C7 hydrocarbons		0.000		0.000		0.000		1640
C8 hydrocarbons	310	0.011	196	0.007		0.000		1,400
C9 hydrocarbons	326	0.012	158	0.006		0.000		1050
C10 hydrocarbons	40	0.001		0.000		0.000		
C11 hydrocarbons		0.000	49	0.002	37	0.001		
C12 hydrocarbons		0.000	35	0.001		0.000		
Other hydrocarbons	770	0.028	2995	0.108	655	0.024		
Total Alkanes	2084	0.074	3595	0.129	813	0.030	0.100	
Aromatics								
benzene		0.000		0.000	37	0.001		1.6 (A1)
toluene	830	0.030	210	0.008	670	0.025		188 (A4)
ethylbenzene		0.000		0.000		0.000		435
m,p-xylene	28	0.001	27	0.001	25	0.001		435 (A4)
o-xylene		0.000		0.000		0.000		435 (A4)
styrene		0.000		0.000		0.000		85 (A4)
4-ethyl toluene		0.000		0.000		0.000		
1,3,5-trimethylbenzene		0.000		0.000		0.000		122
1,2,4-trimethylbenzene		0.000		0.000		0.000		122
bis (2-ethylhexyl) phthalate	190	0.007	150	0.005	59	0.002		
Other aromatics		0.000	26	0.001		0.000		
Total Aromatics	1048	0.037	413	0.015	791	0.029	0.050	
Terpenes								
C10 Terpene		0.000	24	0.001	68	0.003		
Other Terpenes		0.000		0.000		0.000		
Total Terpenes	0	0.000	24	0.001	68	0.003	0.030	
Halocarbons								
dichlorodifluoromethane		0.000	110	0.004		0.000		4950 (A4)
chloromethane	110	0.004	100	0.004		0.000		103
tetradecafluorohexane	110	0.004	60	0.002	88	0.003		
Freon 114		0.000		0.000		0.000		6,990
vinyl chloride		0.000		0.000		0.000		2.6 (A1)
bromomethane		0.000		0.000		0.000		
chloroethane		0.000		0.000		0.000		
Freon 11	250	0.009	170	0.006	130	0.005		5600 (C)
cis-1,2-dichloroethene		0.000		0.000		0.000		1,300
Freon 113	44	0.002	38	0.001	36	0.001		
Freon 141	29	0.001		0.000	32	0.001		
methylene chloride	27	0.001		0.000		0.000		175 (A3)
trans-1,2-dichlorethene		0.000		0.000		0.000		790
1,1-dichloroethane		0.000		0.000		0.000		404 (A4)
1,1-dichloroethene		0.000		0.000		0.000		20 (A3)
chloroform		0.000		0.000		0.000		50 (A3)
1,1,1-trichloroethane		0.000		0.000		0.000		1900 (A4)
carbon tetrachloride		0.000		0.000		0.000		31 (A2)
1,2-dichloroethane		0.000		0.000		0.000		40 (A4)
trichloroethene		0.000		0.000		0.000		270
1,2-dichloropropane		0.000		0.000		0.000		345

Table V.3-5/16a Detailed VOC Results, Sandia Building 807, May 16, 2001

Air Contaminant	516-V-01 Found (ng)	516-V-01 Air Conc. (mg/m^3)	516-V-02 Found (ng)	516-V-02 Air Conc. (mg/m^3)	516-V-3 Found (ng)	516-V-3 Air Conc. (mg/m^3)	Guide* Value (mg/m^3)	TLV/PEL** (8-hr TWA) (mg/m^3)
bromodichloromethane		0.000		0.000		0.000		
cis-1,3-dichloropropene		0.000		0.000		0.000		5
trans-1,3-dichloropropene		0.000		0.000		0.000		5
1,1,2-trichloroethane		0.000		0.000		0.000		54
tetrachloroethene		0.000		0.000		0.000		170 (A3)
dibromochloromethane		0.000		0.000		0.000		
1,2-dibromoethane		0.000		0.000		0.000		[skin] (A3)
chlorobenzene		0.000		0.000		0.000		46 (A3)
bromoform		0.000		0.000		0.000		5 (A3)
1,1,2,2-tetrachloroethane		0.000		0.000		0.000		7 (A3)
benzyl chloride		0.000		0.000		0.000		5 (A3)
1,3-dichlorobenzene		0.000		0.000		0.000		
1,4-dichlorobenzene		0.000		0.000		0.000		60 (A3)
1,2-dichlorobenzene		0.000		0.000		0.000		150
1,2,4-trichlorobenzene		0.000		0.000		0.000		37 (C)
hexachlorobutadiene		0.000		0.000		0.000		0.2 (A3)
Other halocarbons	220	0.008	172	0.006	249	0.009		
Total Halocarbons	790	0.028	650	0.023	535	0.020	0.030	
Esters								
vinyl acetate		0.000		0.000		0.000		35 (A3)
methyl ester acetic acid		0.000	49	0.002	190	0.007		
Other esters		0.000		0.000		0.000		n/a
Total Esters	0	0.000	49	0.002	190	0.007	0.020	
Aldehydes & Ketones								
acetone	470	0.017	250	0.009	350	0.013		1,180
2-butanone (MEK)	38	0.001	31	0.001		0.000		590
acetaldehyde	35	0.001	24	0.001	46	0.002		45 (A3)(C)
4-methyl, 2-pentanone		0.000		0.000		0.000		204
2-hexanone		0.000		0.000		0.000		20
2-propenal, 2-methyl		0.000		0.000		0.000		
Other Alds & Ketone		0.000		0.000	236	0.009		
Total Alds. & Ketones	543	0.019	305	0.011	632	0.023	0.020	
Other								
carbon disulfide		0.000		0.000		0.000		31
methyl t-butyl ether		0.000		0.000		0.000		144 (A3)
methenamine		0.000		0.000		0.000		
3-pentanol	68	0.002		0.000		0.000		
ethanol		0.000		0.000		0.000		1900
2-propanol	59	0.002		0.000	38	0.001		980
Acids		0.000	92	0.003	52	0.002		
Other	116	0.004		0.000	22	0.001		
Total Other	243	0.009	92	0.003	112	0.004	0.050	
TOTAL VOC's	4708	0.168	5128	0.184	3141	0.116	0.300	

* From Seifert: achievable indoor levels that if met are unlikely to result in IAQ complaints or symptoms
** ACGIH Threshold Limit Value or OSHA PEL, whichever is lower.
A1=confirmed human carcinogen
A2=suspected human carcinogen
A3=confirmed animal carcinogen with unknown relevance to humans
C=Ceiling Limit

Table V.3-5/16b Detailed VOC Results, Sandia Building 807, May 16, 2001

Air Contaminant	516-V-04 Found (ng)	516-V-04 Air Conc. (mg/m^3)	516-V-5 Found (ng)	516-V-5 Air Conc. (mg/m^3)	516-V-6 Found (ng)	516-V-6 Air Conc. (mg/m^3)	Guide* Value (mg/m^3)	TLV/PEL** (8-hr TWA) (mg/m^3)
Alkanes								
C3 hydrocarbons		0.000		0.000		0.000		4508 (asphyx)
C4 hydrocarbons	48	0.002		0.000		0.000		1,900
C5 hydrocarbons	96	0.003	115	0.004	141	0.006		1,770
C6 hydrocarbons		0.000	95	0.004	95	0.004		1,760
n-hexane		0.000		0.000		0.000		176
C7 hydrocarbons	22	0.001		0.000	27	0.001		1640
C8 hydrocarbons	42	0.002	73	0.003	37	0.001		1,400
C9 hydrocarbons		0.000		0.000	26	0.001		1050
C10 hydrocarbons		0.000		0.000		0.000		
C11 hydrocarbons	25	0.001	18	0.001		0.000		
C12 hydrocarbons		0.000		0.000		0.000		
Other hydrocarbons	880	0.031	658	0.024	118	0.005		
Total Alkanes	1113	0.040	959	0.036	444	0.018	0.100	
Aromatics								
benzene	25	0.001	27	0.001	34	0.001		1.6 (A1)
toluene	270	0.010	570	0.021	190	0.008		188 (A4)
ethylbenzene		0.000		0.000		0.000		435
m,p-xylene	30	0.001	28	0.001		0.000		435 (A4)
o-xylene		0.000		0.000		0.000		435 (A4)
styrene		0.000		0.000		0.000		85 (A4)
4-ethyl toluene		0.000		0.000		0.000		
1,3,5-trimethylbenzene		0.000		0.000		0.000		122
1,2,4-trimethylbenzene		0.000		0.000		0.000		122
bis (2-ethylhexyl) phthalate	160	0.006	150	0.006	95	0.004		
Other aromatics	16	0.001		0.000	14	0.001		
Total Aromatics	501	0.018	775	0.029	333	0.013	0.050	
Terpenes								
C10 Terpene	17	0.001		0.000		0.000		
Other Terpenes		0.000		0.000		0.000		
Total Terpenes	17	0.001	0	0.000	0	0.000	0.030	
Halocarbons								
dichlorodifluoromethane	110	0.004		0.000		0.000		4950 (A4)
chloromethane		0.000		0.000	270	0.011		103
tetradecafluorohexane	19	0.001	100	0.004	36	0.001		
Freon 114		0.000		0.000		0.000		6,990
vinyl chloride		0.000		0.000		0.000		2.6 (A1)
bromomethane		0.000		0.000		0.000		
chloroethane		0.000		0.000		0.000		
Freon 11	210	0.008	140	0.005	1200	0.048		5600 (C)
cis-1,2-dichloroethene		0.000		0.000		0.000		1,300
Freon 141		0.000	18	0.001		0.000		
Freon 113	47	0.002	48	0.002	43	0.002		
methylene chloride		0.000		0.000		0.000		175 (A3)
trans-1,2-dichlorethene		0.000		0.000		0.000		790
1,1-dichloroethane		0.000		0.000		0.000		404 (A4)
1,1-dichloroethene		0.000		0.000		0.000		20 (A3)
chloroform		0.000		0.000		0.000		50 (A3)
1,1,1-trichloroethane		0.000		0.000		0.000		1900 (A4)
carbon tetrachloride		0.000		0.000		0.000		31 (A2)
1,2-dichloroethane		0.000		0.000		0.000		40 (A4)
trichloroethene		0.000		0.000		0.000		270
1,2-dichloropropane		0.000		0.000		0.000		345

Table V.3-5/16b Detailed VOC Results, Sandia Building 807, May 16, 2001

Air Contaminant	516-V-04 Found (ng)	516-V-04 Air Conc. (mg/m^3)	516-V-5 Found (ng)	516-V-5 Air Conc. (mg/m^3)	516-V-6 Found (ng)	516-V-6 Air Conc. (mg/m^3)	Guide* Value (mg/m^3)	TLV/PEL** (8-hr TWA) (mg/m^3)
bromodichloromethane		0.000		0.000		0.000		
cis-1,3-dichloropropene		0.000		0.000		0.000		5
trans-1,3-dichloropropene		0.000		0.000		0.000		5
1,1,2-trichloroethane		0.000		0.000		0.000		54
tetrachloroethene		0.000		0.000		0.000		170 (A3)
dibromochloromethane		0.000		0.000		0.000		
1,2-dibromoethane		0.000		0.000		0.000		[skin] (A3)
chlorobenzene		0.000		0.000		0.000		46 (A3)
bromoform		0.000		0.000		0.000		5 (A3)
1,1,2,2-tetrachloroethane		0.000		0.000		0.000		7 (A3)
benzyl chloride		0.000		0.000		0.000		5 (A3)
1,3-dichlorobenzene		0.000		0.000		0.000		
1,4-dichlorobenzene		0.000		0.000		0.000		60 (A3)
1,2-dichlorobenzene		0.000		0.000		0.000		150
1,2,4-trichlorobenzene		0.000		0.000		0.000		37 (C)
hexachlorobutadiene		0.000		0.000		0.000		0.2 (A3)
Other halocarbons	327	0.012	260	0.010	107	0.004		
Total Halocarbons	713	0.025	566	0.021	1656	0.066	0.030	
Esters								
vinyl acetate		0.000		0.000		0.000		35 (A3)
methyl ester acetic acid	53	0.002	120	0.004	99	0.004		
Other esters		0.000		0.000		0.000		n/a
Total Esters	53	0.002	120	0.004	99	0.004	0.020	
Aldehydes & Ketones								
acetone	360	0.013	330	0.012	160	0.006		1,180
2-butanone (MEK)	38	0.001	35	0.001	31	0.001		590
acetaldehyde	23	0.001	24	0.001	31	0.001		45 (A3)(C)
4-methyl, 2-pentanone		0.000	28	0.001		0.000		204
2-hexanone		0.000		0.000		0.000		20
2-propenal, 2-methyl		0.000		0.000		0.000		
Other Alds & Ketone		0.000		0.000		0.000		
Total Alds. & Ketones	421	0.015	417	0.015	222	0.009	0.020	
Other								
carbon disulfide		0.000		0.000		0.000		31
methyl t-butyl ether		0.000		0.000		0.000		144 (A3)
methenamine	22	0.001	27	0.001	25	0.001		
ethanol		0.000		0.000		0.000		1900
2-propanol	35	0.001	50	0.002	43	0.002		980
Acids	47	0.002	45	0.002		0.000		
Other	17	0.001	26	0.001	16	0.001		
Total Other	121	0.004	148	0.005	84	0.003	0.050	
TOTAL VOC's	2939	0.105	2985	0.111	2838	0.114	0.300	

* From Seifert: achievable indoor levels that if met are unlikely to result in IAQ complaints or symptoms
** ACGIH Threshold Limit Value or OSHA PEL, whichever is lower.
A1=confirmed human carcinogen
A2=suspected human carcinogen
A3=confirmed animal carcinogen with unknown relevance to humans
C=Ceiling Limit

Table V.3-5/17a Detailed VOC Results, Sandia Building 807, May 17, 2001

Air Contaminant	517-V-01 Found (ng)	517-V-01 Air Conc. (mg/m^3)	517-V-02 Found (ng)	517-V-02 Air Conc. (mg/m^3)	517-V-03 Found (ng)	517-V-03 Air Conc. (mg/m^3)	Guide* Value (mg/m^3)	TLV/PEL** (8-hr TWA) (mg/m^3)
Alkanes								
C3 hydrocarbons		0.000		0.000		0.000		4508 (asphyx)
C4 hydrocarbons	45	0.001		0.000		0.000		1,900
C5 hydrocarbons	183	0.006	75	0.003	113	0.004		1,770
C6 hydrocarbons	169	0.005	89	0.003	67	0.002		1,760
n-hexane		0.000		0.000		0.000		176
C7 hydrocarbons		0.000		0.000		0.000		1640
C8 hydrocarbons	39	0.001	59	0.002	22	0.001		1,400
C9 hydrocarbons	43	0.001		0.000		0.000		1050
C10 hydrocarbons		0.000		0.000		0.000		
C11 hydrocarbons		0.000	31	0.001	27	0.001		
C12 hydrocarbons		0.000	19	0.001		0.000		
Other hydrocarbons	1423	0.044	1240	0.043	1700	0.059		
Total Alkanes	1902	0.059	1513	0.052	1929	0.067	0.100	
Aromatics								
benzene		0.000		0.000		0.000		1.6 (A1)
toluene	480	0.015	350	0.012	920	0.032		188 (A4)
ethylbenzene		0.000		0.000		0.000		435
m,p-xylene	30	0.001	31	0.001		0.000		435 (A4)
o-xylene		0.000		0.000		0.000		435 (A4)
styrene		0.000		0.000		0.000		85 (A4)
4-ethyl toluene		0.000		0.000		0.000		
1,3,5-trimethylbenzene		0.000		0.000		0.000		122
1,2,4-trimethylbenzene		0.000		0.000		0.000		122
bis (2-ethylhexyl) phthalate	64	0.002	130	0.004	150	0.005		
Other aromatics		0.000		0.000	55	0.002		
Total Aromatics	574	0.018	511	0.018	1125	0.039	0.050	
Terpenes								
C10 Terpene	24	0.001	18	0.001		0.000		
Other Terpenes		0.000		0.000		0.000		
Total Terpenes	24	0.001	18	0.001	0	0.000	0.030	
Halocarbons								
dichlorodifluoromethane	130	0.004	140	0.005	100	0.003		4950 (A4)
chloromethane	110	0.003	120	0.004		0.000		103
tetradecafluorohexane	54	0.002	39	0.001	22	0.001		
Freon 114		0.000		0.000		0.000		6,990
vinyl chloride		0.000		0.000		0.000		2.6 (A1)
bromomethane		0.000		0.000		0.000		
chloroethane		0.000		0.000		0.000		
Freon 11	320	0.010	210	0.007	81	0.003		5600 (C)
cis-1,2-dichloroethene		0.000		0.000		0.000		1,300
Freon 113	51	0.002	49	0.002	49	0.002		
methylene chloride		0.000		0.000		0.000		175 (A3)
trans-1,2-dichlorethene		0.000		0.000		0.000		790
1,1-dichloroethane		0.000		0.000		0.000		404 (A4)
1,1-dichloroethene		0.000		0.000		0.000		20 (A3)
chloroform		0.000		0.000		0.000		50 (A3)
1,1,1-trichloroethane		0.000		0.000		0.000		1900 (A4)
carbon tetrachloride		0.000		0.000		0.000		31 (A2)
1,2-dichloroethane		0.000		0.000		0.000		40 (A4)
trichloroethene		0.000		0.000		0.000		270
1,2-dichloropropane		0.000		0.000		0.000		345
bromodichloromethane		0.000		0.000		0.000		

Table V.3-5/17a Detailed VOC Results, Sandia Building 807, May 17, 2001

Air Contaminant	517-V-01 Found (ng)	517-V-01 Air Conc. (mg/m^3)	517-V-02 Found (ng)	517-V-02 Air Conc. (mg/m^3)	517-V-03 Found (ng)	517-V-03 Air Conc. (mg/m^3)	Guide* Value (mg/m^3)	TLV/PEL** (8-hr TWA) (mg/m^3)
cis-1,3-dichloropropene		0.000		0.000		0.000		5
trans-1,3-dichloropropene		0.000		0.000		0.000		5
1,1,2-trichloroethane		0.000		0.000		0.000		54
tetrachloroethene		0.000		0.000		0.000		170 (A3)
dibromochloromethane		0.000		0.000		0.000		
1,2-dibromoethane		0.000		0.000		0.000		[skin] (A3)
chlorobenzene		0.000		0.000		0.000		46 (A3)
bromoform		0.000		0.000		0.000		5 (A3)
1,1,2,2-tetrachloroethane		0.000		0.000		0.000		7 (A3)
benzyl chloride		0.000		0.000		0.000		5 (A3)
1,3-dichlorobenzene		0.000		0.000		0.000		
1,4-dichlorobenzene		0.000		0.000		0.000		60 (A3)
1,2-dichlorobenzene		0.000		0.000		0.000		150
1,2,4-trichlorobenzene		0.000		0.000		0.000		37 (C)
hexachlorobutadiene		0.000		0.000		0.000		0.2 (A3)
Other halocarbons	143	0.004	115	0.004	305	0.011		
Total Halocarbons	808	0.025	673	0.023	557	0.019	0.030	
Esters								
vinyl acetate		0.000		0.000		0.000		35 (A3)
methyl ester acetic acid	260	0.008	56	0.002	100	0.003		
Other esters		0.000		0.000		0.000		n/a
Total Esters	260	0.008	56	0.002	100	0.003	0.020	
Aldehydes & Ketones								
acetone	480	0.015	300	0.010	180	0.006		1,180
2-butanone (MEK)	43	0.001	46	0.002	29	0.001		590
acetaldehyde	41	0.001	28	0.001	29	0.001		45 (A3)(C)
4-methyl, 2-pentanone		0.000		0.000		0.000		204
2-hexanone		0.000		0.000		0.000		20
2-propenal, 2-methyl		0.000		0.000		0.000		
Other Alds & Ketone	26	0.001		0.000		0.000		
Total Alds. & Ketones	590	0.018	374	0.013	238	0.008	0.020	
Other								
carbon disulfide		0.000		0.000		0.000		31
methyl t-butyl ether		0.000		0.000		0.000		144 (A3)
methenamine		0.000		0.000	22	0.001		
ethanol		0.000		0.000		0.000		1900
2-propanol	92	0.003	33	0.001	26	0.001		980
isopropyl palmitate	61	0.002		0.000		0.000		
Acids	37	0.001	34	0.001	30	0.001		
Other	23	0.001	17	0.001	77	0.003		
Total Other	213	0.007	84	0.003	155	0.005	0.050	
TOTAL VOC's	4371	0.135	3229	0.112	4104	0.142	0.300	

* From Seifert: achievable indoor levels that if met are unlikely to result in IAQ complaints or symptoms
** ACGIH Threshold Limit Value or OSHA PEL, whichever is lower.
A1=confirmed human carcinogen
A2=suspected human carcinogen
A3=confirmed animal carcinogen with unknown relevance to humans
C=Ceiling Limit

Table V.3-5/17b Detailed VOC Results, Sandia Building 807, May 17, 2001

Air Contaminant	517-V-04 Found (ng)	517-V-04 Air Conc. (mg/m^3)	517-V-05 Found (ng)	517-V-05 Air Conc. (mg/m^3)	517-V-06 Found (ng)	517-V-06 Air Conc. (mg/m^3)	Guide* Value (mg/m^3)	TLV/PEL** (8-hr TWA) (mg/m^3)
Alkanes								
C3 hydrocarbons		0.000		0.000		0.000		4508 (asphyx)
C4 hydrocarbons		0.000		0.000		0.000		1,900
C5 hydrocarbons	95	0.003	87	0.003	269	0.011		1,770
C6 hydrocarbons	117	0.004	24	0.001	149	0.006		1,760
n-hexane		0.000		0.000		0.000		176
C7 hydrocarbons		0.000	15	0.001	32	0.001		1640
C8 hydrocarbons	26	0.001	44	0.002	15	0.001		1,400
C9 hydrocarbons		0.000	31	0.001	45	0.002		1050
C10 hydrocarbons		0.000		0.000		0.000		
C11 hydrocarbons	29	0.001	27	0.001	31	0.001		
C12 hydrocarbons	19	0.001	22	0.001	22	0.001		
Other hydrocarbons	860	0.031	570	0.021	87	0.004		
Total Alkanes	1146	0.041	820	0.030	650	0.027	0.100	
Aromatics								
benzene		0.000		0.000		0.000		1.6 (A1)
toluene	110	0.004	870	0.032	130	0.005		188 (A4)
ethylbenzene		0.000		0.000		0.000		435
m,p-xylene	28	0.001	27	0.001	27	0.001		435 (A4)
o-xylene		0.000		0.000		0.000		435 (A4)
styrene		0.000		0.000		0.000		85 (A4)
4-ethyl toluene		0.000		0.000		0.000		
1,3,5-trimethylbenzene		0.000		0.000		0.000		122
1,2,4-trimethylbenzene		0.000		0.000		0.000		122
bis (2-ethylhexyl) phthalate	190	0.007	160	0.006	80	0.003		
Other aromatics		0.000		0.000	27	0.001		
Total Aromatics	328	0.012	1057	0.039	264	0.011	0.050	
Terpenes								
C10 Terpene	19	0.001		0.000		0.000		
Other Terpenes		0.000		0.000		0.000		
Total Terpenes	19	0.001	0	0.000	0	0.000	0.030	
Halocarbons								
dichlorodifluoromethane	100	0.004	120	0.004		0.000		4950 (A4)
chloromethane	110	0.004		0.000	200	0.008		103
tetradecafluorohexane	54	0.002	22	0.001		0.000		
Freon 114		0.000		0.000		0.000		6,990
vinyl chloride		0.000		0.000		0.000		2.6 (A1)
bromomethane		0.000		0.000		0.000		
chloroethane		0.000		0.000		0.000		
Freon 11	300	0.011	100	0.004	200	0.008		5600 (C)
cis-1,2-dichloroethene		0.000		0.000		0.000		1,300
Freon 113	44	0.002	60	0.002	49	0.002		
Freon 141		0.000		0.000	57	0.002		
methylene chloride		0.000		0.000		0.000		175 (A3)
trans-1,2-dichlorethene		0.000		0.000		0.000		790
1,1-dichloroethane		0.000		0.000		0.000		404 (A4)
1,1-dichloroethene		0.000		0.000		0.000		20 (A3)
chloroform		0.000		0.000		0.000		50 (A3)
1,1,1-trichloroethane		0.000		0.000		0.000		1900 (A4)
carbon tetrachloride		0.000		0.000		0.000		31 (A2)
1,2-dichloroethane		0.000		0.000		0.000		40 (A4)
trichloroethene		0.000		0.000		0.000		270
1,2-dichloropropane		0.000		0.000		0.000		345

Table V.3-5/17b Detailed VOC Results, Sandia Building 807, May 17, 2001

Air Contaminant	517-V-04 Found (ng)	517-V-04 Air Conc. (mg/m^3)	517-V-05 Found (ng)	517-V-05 Air Conc. (mg/m^3)	517-V-06 Found (ng)	517-V-06 Air Conc. (mg/m^3)	Guide* Value (mg/m^3)	TLV/PEL** (8-hr TWA) (mg/m^3)
bromodichloromethane		0.000		0.000		0.000		
cis-1,3-dichloropropene		0.000		0.000		0.000		5
trans-1,3-dichloropropene		0.000		0.000		0.000		5
1,1,2-trichloroethane		0.000		0.000		0.000		54
tetrachloroethene		0.000		0.000		0.000		170 (A3)
dibromochloromethane		0.000		0.000		0.000		
1,2-dibromoethane		0.000		0.000		0.000		[skin] (A3)
chlorobenzene		0.000		0.000		0.000		46 (A3)
bromoform		0.000		0.000		0.000		5 (A3)
1,1,2,2-tetrachloroethane		0.000		0.000		0.000		7 (A3)
benzyl chloride		0.000		0.000		0.000		5 (A3)
1,3-dichlorobenzene		0.000		0.000		0.000		
1,4-dichlorobenzene		0.000		0.000		0.000		60 (A3)
1,2-dichlorobenzene		0.000		0.000		0.000		150
1,2,4-trichlorobenzene		0.000		0.000		0.000		37 (C)
hexachlorobutadiene		0.000		0.000		0.000		0.2 (A3)
Other halocarbons	124	0.004	375	0.014		0.000		
Total Halocarbons	732	0.026	677	0.025	506	0.021	0.030	
Esters								
vinyl acetate		0.000		0.000		0.000		35 (A3)
methyl ester acetic acid	140	0.005	67	0.002		0.000		
Other esters		0.000		0.000		0.000		n/a
Total Esters	140	0.005	67	0.002	0	0.000	0.020	
Aldehydes & Ketones								
acetone	340	0.012	380	0.014	230	0.010		1,180
2-butanone (MEK)	36	0.001	29	0.001		0.000		590
acetaldehyde	37	0.001	19	0.001	28	0.001		45 (A3)(C)
4-methyl, 2-pentanone		0.000		0.000		0.000		204
2-hexanone		0.000		0.000		0.000		20
2-propenal, 2-methyl		0.000		0.000		0.000		
Other Alds & Ketone	18	0.001		0.000	25	0.001		
Total Alds. & Ketones	431	0.015	428	0.016	283	0.012	0.020	
Other								
carbon disulfide		0.000		0.000		0.000		31
methyl t-butyl ether		0.000		0.000		0.000		144 (A3)
methenamine	37	0.001		0.000	14	0.001		
ethanol		0.000		0.000		0.000		1900
2-propanol	43	0.002	72	0.003		0.000		980
isopropyl palmitate		0.000		0.000	37	0.002		
Acids	21	0.001	26	0.001		0.000		
Other	17	0.001	27	0.001	42	0.002		
Total Other	118	0.004	125	0.005	93	0.004	0.050	
TOTAL VOC's	2914	0.104	3174	0.118	1796	0.075	0.300	

* From Seifert: achievable indoor levels that if met are unlikely to result in IAQ complaints or symptoms
** ACGIH Threshold Limit Value or OSHA PEL, whichever is lower.
A1=confirmed human carcinogen
A2=suspected human carcinogen
A3=confirmed animal carcinogen with unknown relevance to humans
C=Ceiling Limit

Table V.3-5/18a Detailed VOC Results, Sandia Building 807, May 18, 2001

Air Contaminant	518-V-1		518-V-2		518-V-3		Guide*	TLV/PEL**
	Found (ng)	Air Conc. (mg/m^3)	Found (ng)	Air Conc. (mg/m^3)	Found (ng)	Air Conc. (mg/m^3)	Value (mg/m^3)	(8-hr TWA) (mg/m^3)
Alkanes								
C3 hydrocarbons		0.000		0.000		0.000		4508 (asphyx)
C4 hydrocarbons		0.000		0.000		0.000		1,900
C5 hydrocarbons	60	0.002	47	0.002	107	0.004		1,770
C6 hydrocarbons	253	0.009	84	0.003	225	0.008		1,760
n-hexane		0.000		0.000		0.000		176
C7 hydrocarbons		0.000		0.000		0.000		1640
C8 hydrocarbons	69	0.003	84	0.003	56	0.002		1,400
C9 hydrocarbons	23	0.001	39	0.002	15	0.001		1050
C10 hydrocarbons		0.000		0.000		0.000		
C11 hydrocarbons	23	0.001	23	0.001	32	0.001		
C12 hydrocarbons	24	0.001	19	0.001	21	0.001		
Other hydrocarbons	1600	0.059	1830	0.070	975	0.036		
Total Alkanes	2052	0.076	2126	0.082	1431	0.054	0.100	
Aromatics								
benzene		0.000		0.000		0.000		1.6 (A1)
toluene	63	0.002	67	0.003	57	0.002		188 (A4)
ethylbenzene		0.000		0.000		0.000		435
m,p-xylene		0.000		0.000		0.000		435 (A4)
o-xylene		0.000		0.000		0.000		435 (A4)
styrene		0.000		0.000		0.000		85 (A4)
4-ethyl toluene		0.000		0.000		0.000		
1,3,5-trimethylbenzene		0.000		0.000		0.000		122
1,2,4-trimethylbenzene		0.000		0.000		0.000		122
bis (2-ethylexyl) phthalate	110	0.004		0.000	66	0.002		
Other aromatics	75	0.003	21	0.001		0.000		
Total Aromatics	248	0.009	88	0.003	123	0.005	0.050	
Terpenes								
C10 Terpene		0.000	29	0.001		0.000		
Other Terpenes		0.000		0.000		0.000		
Total Terpenes	0	0.000	29	0.001	0	0.000	0.030	
Halocarbons								
dichlorodifluoromethane		0.000		0.000		0.000		4950 (A4)
chloromethane		0.000	110	0.004		0.000		103
tetadecafluorohexane	24	0.001	17	0.001	22	0.001		
Freon 114		0.000		0.000		0.000		6,990
vinyl chloride		0.000		0.000		0.000		2.6 (A1)
bromomethane		0.000		0.000		0.000		
chloroethane		0.000		0.000		0.000		
Freon 11	190	0.007	150	0.006	160	0.006		5600 (C)
cis-1,2-dichloroethene		0.000		0.000		0.000		1,300
Freon 113	39	0.001	38	0.001	41	0.002		
Freon 141		0.000	16	0.001		0.000		
methylene chloride		0.000		0.000		0.000		175 (A3)
trans-1,2-dichlorethene		0.000		0.000		0.000		790
1,1-dichloroethane		0.000		0.000		0.000		404 (A4)
1,1-dichloroethene		0.000		0.000		0.000		20 (A3)
chloroform		0.000		0.000		0.000		50 (A3)
1,1,1-trichloroethane	390	0.014	360	0.014	480	0.018		1900 (A4)
carbon tetrachloride		0.000		0.000		0.000		31 (A2)
1,2-dichloroethane		0.000		0.000		0.000		40 (A4)
trichloroethene		0.000		0.000		0.000		270
1,2-dichloropropane		0.000		0.000		0.000		345
bromodichloromethane		0.000		0.000		0.000		

Table V.3-5/18a Detailed VOC Results, Sandia Building 807, May 18, 2001

Air Contaminant	518-V-1 Found (ng)	518-V-1 Air Conc. (mg/m^3)	518-V-2 Found (ng)	518-V-2 Air Conc. (mg/m^3)	518-V-3 Found (ng)	518-V-3 Air Conc. (mg/m^3)	Guide* Value (mg/m^3)	TLV/PEL** (8-hr TWA) (mg/m^3)
cis-1,3-dichloropropene		0.000		0.000		0.000		5
trans-1,3-dichloropropene		0.000		0.000		0.000		5
1,1,2-trichloroethane		0.000		0.000		0.000		54
tetrachloroethene		0.000		0.000		0.000		170 (A3)
dibromochloromethane		0.000		0.000		0.000		
1,2-dibromoethane		0.000		0.000		0.000		[skin] (A3)
chlorobenzene		0.000		0.000		0.000		46 (A3)
bromoform		0.000		0.000		0.000		5 (A3)
1,1,2,2-tetrachloroethane		0.000		0.000		0.000		7 (A3)
benzyl chloride		0.000		0.000		0.000		5 (A3)
1,3-dichlorobenzene		0.000		0.000		0.000		
1,4-dichlorobenzene		0.000		0.000		0.000		60 (A3)
1,2-dichlorobenzene		0.000		0.000		0.000		150
1,2,4-trichlorobenzene		0.000		0.000		0.000		37 (C)
hexachlorobutadiene		0.000		0.000		0.000		0.2 (A3)
Other halocarbons	56	0.002	24	0.001	64	0.002		
Total Halocarbons	699	0.026	715	0.028	767	0.029	0.030	
Esters								
vinyl acetate		0.000		0.000		0.000		35 (A3)
methyl ester acetic acid	74	0.003	43	0.002	86	0.003		
Other esters		0.000		0.000		0.000		n/a
Total Esters		0.003	43	0.002	86	0.003	0.020	
Aldehydes & Ketones								
acetone	390	0.014	380	0.015	250	0.009		1,180
2-butanone (MEK)	42	0.002	34	0.001	33	0.001		590
acetaldehyde	26	0.001	21	0.001	28	0.001		45 (A3)(C)
4-methyl, 2-pentanone		0.000		0.000		0.000		204
2-hexanone		0.000		0.000		0.000		20
2-propenal, 2-methyl		0.000		0.000		0.000		
Other Alds & Ketone		0.000	47	0.002		0.000		
Total Alds. & Ketones	458	0.017	482	0.019	311	0.012	0.020	
Other								
carbon disulfide		0.000		0.000		0.000		31
methyl t-butyl ether		0.000		0.000		0.000		144 (A3)
methenamine		0.000		0.000	15	0.001		
ethanol		0.000		0.000		0.000		1900
2-propanol	120	0.004	45	0.002	71	0.003		980
isopropyl palmitate	47	0.002		0.000		0.000		
Acids	90	0.003	97	0.004	67	0.003		
Other		0.000		0.000		0.000		
Total Other	257	0.010	142	0.005	153	0.006	0.050	
TOTAL VOC's	3466	0.140	3625	0.139	2871	0.107	0.300	

* From Seifert: achievable indoor levels that if met are unlikely to result in IAQ complaints or symptoms
** ACGIH Threshold Limit Value or OSHA PEL, whichever is lower.
A1=confirmed human carcinogen
A2=suspected human carcinogen
A3=confirmed animal carcinogen with unknown relevance to humans
C=Ceiling Limit

Table V.3-5/18b Detailed VOC Results, Sandia Building 807, May 18, 2001

Air Contaminant	518-V-4 Found (ng)	518-V-4 Air Conc. (mg/m^3)	518-V-5 Found (ng)	518-V-5 Air Conc. (mg/m^3)	518-V-6 Found (ng)	518-V-6 Air Conc. (mg/m^3)	Guide* Value (mg/m^3)	TLV/PEL** (8-hr TWA) (mg/m^3)
Alkanes								
C3 hydrocarbons		0.000		0.000		0.000		4508 (asphyx)
C4 hydrocarbons		0.000		0.000	14	0.001		1,900
C5 hydrocarbons	134	0.005	83	0.003	66	0.003		1,770
C6 hydrocarbons	228	0.009	201	0.008	81	0.003		1,760
n-hexane		0.000		0.000		0.000		176
C7 hydrocarbons		0.000	16	0.001	23.8	0.001		1640
C8 hydrocarbons	57	0.002	52	0.002		0.000		1,400
C9 hydrocarbons	32	0.001	24	0.001		0.000		1050
C10 hydrocarbons	38	0.002	20	0.001		0.000		
C11 hydrocarbons	42	0.002	32	0.001	19	0.001		
C12 hydrocarbons	25	0.001	27	0.001	14	0.001		
Other hydrocarbons	630	0.026	740	0.030		0.000		
Total Alkanes	1186	0.048	1195	0.049	217.8	0.009	0.100	
Aromatics								
benzene		0.000		0.000		0.000		1.6 (A1)
toluene	54	0.002	65	0.003	38	0.002		188 (A4)
ethylbenzene		0.000		0.000		0.000		435
m,p-xylene		0.000		0.000		0.000		435 (A4)
o-xylene		0.000		0.000		0.000		435 (A4)
styrene		0.000		0.000		0.000		85 (A4)
4-ethyl toluene		0.000		0.000		0.000		
1,3,5-trimethylbenzene		0.000		0.000		0.000		122
1,2,4-trimethylbenzene		0.000		0.000		0.000		122
bis (2-ethylhexyl) phthalate		0.000		0.000	53	0.002		
Other aromatics		0.000		0.000		0.000		
Total Aromatics	54	0.002	65	0.003	91	0.004	0.050	
Terpenes								
C10 Terpene	39	0.002	22	0.001		0.000		
Other Terpenes		0.000		0.000		0.000		
Total Terpenes	39	0.002	22	0.001	0	0.000	0.030	
Halocarbons								
dichlorodifluoromethane		0.000		0.000		0.000		4950 (A4)
chloromethane	130	0.005		0.000	130	0.005		103
tetradecafluorohexane	64	0.003	26	0.001		0.000		
Freon 114		0.000		0.000		0.000		6,990
vinyl chloride		0.000		0.000		0.000		2.6 (A1)
bromomethane		0.000		0.000		0.000		
chloroethane		0.000		0.000		0.000		
Freon 11	89	0.004	170	0.007	710	0.028		5600 (C)
cis-1,2-dichloroethene		0.000		0.000		0.000		1,300
Freon 113	62	0.003	44	0.002	30	0.001		
methylene chloride		0.000		0.000		0.000		175 (A3)
trans-1,2-dichlorethene		0.000		0.000		0.000		790
1,1-dichloroethane		0.000		0.000		0.000		404 (A4)
1,1-dichloroethene		0.000		0.000		0.000		20 (A3)
chloroform		0.000		0.000		0.000		50 (A3)
1,1,1-trichloroethane	260	0.011	440	0.018	160	0.006		1900 (A4)
carbon tetrachloride		0.000		0.000		0.000		31 (A2)
1,2-dichloroethane		0.000		0.000		0.000		40 (A4)
trichloroethene		0.000		0.000		0.000		270
1,2-dichloropropane		0.000		0.000		0.000		345
bromodichloromethane		0.000		0.000		0.000		

Table V.3-5/18b Detailed VOC Results, Sandia Building 807, May 18, 2001

Air Contaminant	518-V-4 Found (ng)	518-V-4 Air Conc. (mg/m^3)	518-V-5 Found (ng)	518-V-5 Air Conc. (mg/m^3)	518-V-6 Found (ng)	518-V-6 Air Conc. (mg/m^3)	Guide* Value (mg/m^3)	TLV/PEL** (8-hr TWA) (mg/m^3)
cis-1,3-dichloropropene		0.000		0.000		0.000		5
trans-1,3-dichloropropene		0.000		0.000		0.000		5
1,1,2-trichloroethane		0.000		0.000		0.000		54
tetrachloroethene		0.000		0.000		0.000		170 (A3)
dibromochloromethane		0.000		0.000		0.000		
1,2-dibromoethane		0.000		0.000		0.000		[skin] (A3)
chlorobenzene		0.000		0.000		0.000		46 (A3)
bromoform		0.000		0.000		0.000		5 (A3)
1,1,2,2-tetrachloroethane		0.000		0.000		0.000		7 (A3)
benzyl chloride		0.000		0.000		0.000		5 (A3)
1,3-dichlorobenzene		0.000		0.000		0.000		
1,4-dichlorobenzene		0.000		0.000		0.000		60 (A3)
1,2-dichlorobenzene		0.000		0.000		0.000		150
1,2,4-trichlorobenzene		0.000		0.000		0.000		37 (C)
hexachlorobutadiene		0.000		0.000		0.000		0.2 (A3)
Other halocarbons	183	0.007	26	0.001		0.000		
Total Halocarbons	788	0.032	706	0.029	1030	0.041	0.030	
Esters								
vinyl acetate		0.000		0.000		0.000		35 (A3)
methyl ester acetic acid	70	0.003	69	0.003	41	0.002		
Other esters		0.000		0.000		0.000		n/a
Total Esters	70	0.003	69	0.003	41	0.002	0.020	
Aldehydes & Ketones								
acetone	280	0.011	370	0.015	130	0.005		1,180
2-butanone (MEK)	28	0.001	36	0.001		0.000		590
acetaldehyde	37	0.002	29	0.001	10	0.000		45 (A3)(C)
4-methyl, 2-pentanone		0.000		0.000		0.000		204
2-hexanone		0.000		0.000		0.000		20
2-propenal, 2-methyl		0.000		0.000		0.000		
Other Alds & Ketone		0.000		0.000		0.000		
Total Alds. & Ketones	345	0.014	435	0.018	140	0.006	0.020	
Other								
carbon disulfide		0.000		0.000		0.000		31
dimethoxymethane		0.000		0.000	12	0.000		
methyl t-butyl ether		0.000		0.000		0.000		144 (A3)
methenamine	29	0.001	25	0.001	12	0.000		
ethanol		0.000		0.000		0.000		1900
2-propanol	92	0.004	81	0.003		0.000		980
Acids	36	0.001	54	0.002		0.000		
Other		0.000		0.000		0.000		
Total Other	157	0.006	160	0.007	24	0.001	0.050	
TOTAL VOC's	2639	0.107	2652	0.108	1543.8	0.062	0.300	

* From Seifert: achievable indoor levels that if met are unlikely to result in IAQ complaints or symptoms
** ACGIH Threshold Limit Value or OSHA PEL, whichever is lower.
A1=confirmed human carcinogen
A2=suspected human carcinogen
A3=confirmed animal carcinogen with unknown relevance to humans
C=Ceiling Limit

Table V.3-Blanks VOC Results for Field Blanks, Sandia Building 807, May 14-18, 2001

Air Contaminant	518-V-7 Found (ng)	518-V-7 Air Conc. (mg/m^3)	515-V-7 Found (ng)	515-V-7 Air Conc. (mg/m^3)	Found (ng)	Air Conc. (mg/m^3)	Guide* Value (mg/m^3)	TLV/PEL** (8-hr TWA) (mg/m^3)
Alkanes								
C3 hydrocarbons		0.000		0.000		0.000		4508 (asphyx)
C4 hydrocarbons		0.000		0.000		0.000		1,900
C5 hydrocarbons	9.2	0.000	20	0.001		0.000		1,770
C6 hydrocarbons		0.000		0.000		0.000		1,760
n-hexane		0.000		0.000		0.000		176
C7 hydrocarbons		0.000		0.000		0.000		1640
C8 hydrocarbons		0.000		0.000		0.000		1,400
C9 hydrocarbons		0.000		0.000		0.000		1050
C10 hydrocarbons		0.000		0.000		0.000		
C11 hydrocarbons		0.000		0.000		0.000		
C12 hydrocarbons		0.000		0.000		0.000		
Other hydrocarbons		0.000	15	0.001		0.000		
Total Alkanes	9.2	0.000	35	0.001	0	0.000	0.100	
Aromatics								
benzene		0.000		0.000		0.000		1.6 (A1)
toluene		0.000		0.000		0.000		188 (A4)
ethylbenzene		0.000		0.000		0.000		435
m,p-xylene		0.000		0.000		0.000		435 (A4)
o-xylene		0.000		0.000		0.000		435 (A4)
styrene		0.000		0.000		0.000		85 (A4)
4-ethyl toluene		0.000		0.000		0.000		
1,3,5-trimethylbenzene		0.000		0.000		0.000		122
1,2,4-trimethylbenzene		0.000		0.000		0.000		122
Other aromatics		0.000		0.000		0.000		
Total Aromatics	0	0.000	0	0.000	0	0.000	0.050	
Terpenes								
C10 Terpene		0.000		0.000		0.000		
Other Terpenes		0.000		0.000		0.000		
Total Terpenes	0	0.000	0	0.000	0	0.000	0.030	
Halocarbons								
dichlorodifluoromethane		0.000		0.000		0.000		4950 (A4)
chloromethane		0.000		0.000		0.000		103
Freon 114		0.000		0.000		0.000		6,990
vinyl chloride		0.000		0.000		0.000		2.6 (A1)
bromomethane		0.000		0.000		0.000		
chloroethane		0.000		0.000		0.000		
Freon 11		0.000		0.000		0.000		5600 (C)
cis-1,2-dichloroethene		0.000		0.000		0.000		1,300
Freon 113		0.000		0.000		0.000		
methylene chloride		0.000		0.000		0.000		175 (A3)
trans-1,2-dichlorethene		0.000		0.000		0.000		790
1,1-dichloroethane		0.000		0.000		0.000		404 (A4)
1,1-dichloroethene		0.000		0.000		0.000		20 (A3)
chloroform		0.000		0.000		0.000		50 (A3)
1,1,1-trichloroethane		0.000		0.000		0.000		1900 (A4)
carbon tetrachloride		0.000		0.000		0.000		31 (A2)
1,2-dichloroethane		0.000		0.000		0.000		40 (A4)
trichloroethene		0.000		0.000		0.000		270
1,2-dichloropropane		0.000		0.000		0.000		345
bromodichloromethane		0.000		0.000		0.000		

Table V.3-Blanks VOC Results for Field Blanks, Sandia Building 807, May 14-18, 2001

Air Contaminant	518-V-7 Found (ng)	518-V-7 Air Conc. (mg/m^3)	515-V-7 Found (ng)	515-V-7 Air Conc. (mg/m^3)	Found (ng)	Air Conc. (mg/m^3)	Guide* Value (mg/m^3)	TLV/PEL** (8-hr TWA) (mg/m^3)
cis-1,3-dichloropropene		0.000		0.000		0.000		5
trans-1,3-dichloropropene		0.000		0.000		0.000		5
1,1,2-trichloroethane		0.000		0.000		0.000		54
tetrachloroethene		0.000		0.000		0.000		170 (A3)
dibromochloromethane		0.000		0.000		0.000		
1,2-dibromoethane		0.000		0.000		0.000		[skin] (A3)
chlorobenzene		0.000		0.000		0.000		46 (A3)
bromoform		0.000		0.000		0.000		5 (A3)
1,1,2,2-tetrachloroethane		0.000		0.000		0.000		7 (A3)
benzyl chloride		0.000		0.000		0.000		5 (A3)
1,3-dichlorobenzene		0.000		0.000		0.000		
1,4-dichlorobenzene		0.000		0.000		0.000		60 (A3)
1,2-dichlorobenzene		0.000		0.000		0.000		150
1,2,4-trichlorobenzene		0.000		0.000		0.000		37 (C)
hexachlorobutadiene		0.000		0.000		0.000		0.2 (A3)
Other halocarbons		0.000	19	0.001		0.000		
Total Halocarbons	0	0.000	19	0.001	0	0.000	0.030	
Esters								
vinyl acetate		0.000		0.000		0.000		35 (A3)
methyl ester acetic acid		0.000	70	0.003		0.000		
Other esters		0.000		0.000		0.000		n/a
Total Esters	0	0.000	70	0.003	0	0.000	0.020	
Aldehydes & Ketones								
acetone		0.000		0.000		0.000		1,180
2-butanone (MEK)		0.000		0.000		0.000		590
acetaldehyde	47	0.002		0.000		0.000		45 (A3)(C)
4-methyl, 2-pentanone		0.000		0.000		0.000		204
2-hexanone		0.000		0.000		0.000		20
2-propenal, 2-methyl		0.000		0.000		0.000		
Other Alds & Ketone		0.000	27	0.001		0.000		
Total Alds. & Ketones	47	0.002	27	0.001	0	0.000	0.020	
Other								
carbon disulfide		0.000		0.000		0.000		31
methyl t-butyl ether		0.000		0.000		0.000		144 (A3)
methenamine		0.000		0.000		0.000		
ethanol		0.000		0.000		0.000		1900
2-propanol		0.000		0.000		0.000		980
Acids		0.000		0.000		0.000		
Other		0.000		0.000		0.000		
Total Other	0	0.000	0	0.000	0	0.000	0.050	
TOTAL VOC's	56.2	0.002	151	0.006	0	0.000	0.300	

* From Seifert: achievable indoor levels that if met are unlikely to result in IAQ complaints or symptoms
** ACGIH Threshold Limit Value or OSHA PEL, whichever is lower.
A1=confirmed human carcinogen
A2=suspected human carcinogen
A3=confirmed animal carcinogen with unknown relevance to humans
C=Ceiling Limit