

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX022125\
 Data File : VX045016.D
 Acq On : 21 Feb 2025 14:03
 Operator : JC/MD
 Sample : VX0221WBSD01
 Misc : 5.0mL/MSVOA_X/WATER
 ALS Vial : 10 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 VX0221WBSD01

Manual Integrations
 APPROVED

Reviewed By : John Carlone 02/24/2025
 Supervised By : Mahesh Dadoda 02/24/2025

Quant Time: Feb 22 01:14:15 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\624X022125W.M
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
 QLast Update : Sat Feb 22 01:06:36 2025
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

Internal Standards						
1) Bromochloromethane	4.898	128	16341	30.000	ug/l	0.01
28) 1,4-Difluorobenzene	6.757	114	88567	30.000	ug/l	0.00
57) Chlorobenzene-d5	10.049	117	82796	30.000	ug/l	0.00
System Monitoring Compounds						
27) 1,2-Dichloroethane-d4	5.946	65	46289	29.165	ug/l	0.00
Spiked Amount 30.000	Range	91 - 110	Recovery	=	97.233%	
60) 4-Bromofluorobenzene	11.079	95	45602	29.467	ug/l	0.00
Spiked Amount 30.000	Range	63 - 112	Recovery	=	98.233%	
63) Toluene-d8	8.641	98	134042	29.264	ug/l	0.00
Spiked Amount 30.000	Range	91 - 112	Recovery	=	97.533%	
Target Compounds					Qvalue	
2) Dichlorodifluoromethane	1.167	85	25019	18.162	ug/l	98
3) Chloromethane	1.295	50	31510	19.098	ug/l	97
4) Vinyl Chloride	1.374	62	29161	18.317	ug/l	95
5) Bromomethane	1.593	94	10629	19.180	ug/l	99
6) Chloroethane	1.673	64	16592	19.242	ug/l	92
7) Trichlorofluoromethane	1.880	101	40595	18.972	ug/l	99
8) Diethyl Ether	2.130	74	14986	18.510	ug/l	100
9) 1,1,2-Trichlorotrifluo...	2.325	101	23609	18.577	ug/l	98
10) 1,1-Dichloroethene	2.313	96	23508	18.938	ug/l	89
11) Methyl Iodide	2.447	142	25290	18.000	ug/l	96
12) Methyl Acetate	2.697	43	29572	20.515	ug/l	98
13) Acrolein	2.233	56	31635	109.488	ug/l	99
14) Acrylonitrile	3.056	53	70385	99.964	ug/l	100
15) Acetone	2.374	58	18895	97.848	ug/l	97
16) Carbon Disulfide	2.508	76	65042	18.472	ug/l	99
17) Allyl chloride	2.660	41	43472	18.724	ug/l	98
18) Methylene Chloride	2.782	84	26795	19.191	ug/l	94
19) trans-1,2-Dichloroethene	3.087	96	23857	18.996	ug/l	93
20) Diisopropyl ether	3.751	45	85729	19.215	ug/l	98
21) 1,1-Dichloroethane	3.605	63	45911	18.503	ug/l	99
22) cis-1,2-Dichloroethene	4.483	96	28099	18.671	ug/l	96
23) tert-Butyl Alcohol	2.959	59	26847	109.220	ug/l #	100
24) Methyl tert-Butyl Ether	3.105	73	77862	19.218	ug/l	99
25) Chloroform	5.080	83	45998	19.192	ug/l	94
26) Cyclohexane	5.465	56	42880	18.722	ug/l #	96
29) 1,1-Dichloropropene	5.690	75	31076	19.074	ug/l	99
30) 2-Butanone	4.550	43	97089	103.174	ug/l	99
31) 2,2-Dichloropropane	4.465	77	35100	19.053	ug/l	100
32) 1,1,1-Trichloroethane	5.379	97	38377	19.441	ug/l	99
33) Carbon Tetrachloride	5.672	117	31766	19.068	ug/l	98
34) Benzene	6.032	78	101719	19.909	ug/l	99
35) Methacrylonitrile	4.910	41	20212	20.072	ug/l	94
36) 1,2-Dichloroethane	6.074	62	34260	19.586	ug/l	98
37) Trichloroethene	7.123	130	22927	19.181	ug/l	99
38) Methylcyclohexane	7.373	83	42508	19.432	ug/l	97
39) 1,2-Dichloropropane	7.422	63	24286	19.120	ug/l	96
40) Dibromomethane	7.580	93	18105	19.863	ug/l	98
41) Bromodichloromethane	7.818	83	34847	19.235	ug/l	99
42) Vinyl Acetate	3.715	43	359203	98.367	ug/l	99

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Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
43) Ethyl Acetate	4.709	43	35887	20.336	ug/l	100
44) Isopropyl Acetate	6.330	43	58095	20.002	ug/l	99
45) 1,4-Dioxane	7.659	88	13458	445.723	ug/l	99
46) Methyl methacrylate	7.690	41	29387	20.634	ug/l	96
47) n-amyl Acetate	10.842	43	52663	20.895	ug/l	99
48) t-1,3-Dichloropropene	8.976	75	32866	18.822	ug/l	96
49) cis-1,3-Dichloropropene	8.360	75	37552	18.997	ug/l	99
50) 1,1,2-Trichloroethane	9.147	97	24353	20.483	ug/l	99
51) Ethyl methacrylate	9.116	69	36103	19.308	ug/l	98
52) 1,3-Dichloropropane	9.305	76	42557	20.428	ug/l	99
53) Dibromochloromethane	9.519	129	25506	19.397	ug/l	96
54) 1,2-Dibromoethane	9.604	107	24081	19.946	ug/l	99
55) 2-Chloroethyl vinyl ether	8.238	63	90828	94.590	ug/l	99
56) Bromoform	10.799	173	15778	19.148	ug/l	97
58) 4-Methyl-2-Pentanone	8.568	43	194714	103.382	ug/l	99
59) 2-Hexanone	9.427	43	144228	105.944	ug/l	99
61) Tetrachloroethene	9.269	164	19863	19.482	ug/l	98
62) Toluene	8.714	91	103985	18.959	ug/l	100
64) Chlorobenzene	10.073	112	66553	19.582	ug/l	98
65) 1,1,1,2-Tetrachloroethane	10.159	131	21017	18.741	ug/l	97
66) Ethyl Benzene	10.189	91	115902	19.302	ug/l	98
67) m/p-Xylenes	10.299	106	87336	39.037	ug/l	100
68) o-Xylene	10.640	106	43478	19.807	ug/l	98
69) Styrene	10.653	104	71596	19.529	ug/l	99
70) Isopropylbenzene	10.957	105	110300	19.471	ug/l	100
71) 1,1,2,2-Tetrachloroethane	11.207	83	38669	20.759	ug/l	98
72) 1,2,3-Trichloropropane	11.238	75	31090m	20.292	ug/l	
73) Bromobenzene	11.195	156	25653	19.672	ug/l	98
74) n-propylbenzene	11.299	91	129578	19.222	ug/l	99
75) 2-Chlorotoluene	11.360	91	78785	19.332	ug/l	99
76) 1,3,5-Trimethylbenzene	11.451	105	91583	19.597	ug/l	99
77) t-1,4-Dichloro-2-butene	11.018	75	8444	16.381	ug/l	91
78) 4-Chlorotoluene	11.451	91	88096	19.392	ug/l	98
79) tert-butylbenzene	11.713	119	93304	19.815	ug/l	99
80) 1,2,4-Trimethylbenzene	11.750	105	92294	19.716	ug/l	99
81) sec-Butylbenzene	11.890	105	114160	19.318	ug/l	99
82) p-Isopropyltoluene	12.006	119	92897	19.401	ug/l	98
83) 1,3-Dichlorobenzene	11.963	146	46608	19.209	ug/l	97
84) 1,4-Dichlorobenzene	12.037	146	47546	19.874	ug/l	98
85) n-Butylbenzene	12.329	91	81637	18.671	ug/l	99
86) Hexachloroethane	12.536	117	15078	17.855	ug/l	99
87) 1,2-Dichlorobenzene	12.335	146	48758	20.481	ug/l	99
88) 1,2-Dibromo-3-Chloropr...	12.939	75	7098	19.681	ug/l	98
89) 1,2,4-Trichlorobenzene	13.585	180	27591	19.122	ug/l	97
90) Hexachlorobutadiene	13.719	225	11485	19.518	ug/l	99
91) Naphthalene	13.774	128	99423	19.542	ug/l	99
92) 1,2,3-Trichlorobenzene	13.957	180	28318	19.063	ug/l	99

(#) = qualifier out of range (m) = manual integration (+) = signals summed

