

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX022125\
 Data File : VX045015.D
 Acq On : 21 Feb 2025 13:41
 Operator : JC/MD
 Sample : VX0221WBS01
 Misc : 5.0mL/MSVOA_X/WATER
 ALS Vial : 9 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 VX0221WBS01

Manual Integrations
 APPROVED

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

Quant Time: Feb 22 01:13:23 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	4.885	128	18256	30.000	ug/l	0.00
28) 1,4-Difluorobenzene	6.751	114	100301	30.000	ug/l	0.00
57) Chlorobenzene-d5	10.049	117	92768	30.000	ug/l	0.00
System Monitoring Compounds						
27) 1,2-Dichloroethane-d4	5.940	65	52697	29.720	ug/l	0.00
Spiked Amount 30.000	Range 91 - 110		Recovery =	99.067%		
60) 4-Bromofluorobenzene	11.079	95	51386	29.635	ug/l	0.00
Spiked Amount 30.000	Range 63 - 112		Recovery =	98.800%		
63) Toluene-d8	8.641	98	155135	30.228	ug/l	0.00
Spiked Amount 30.000	Range 91 - 112		Recovery =	100.767%		
Target Compounds						Qvalue
2) Dichlorodifluoromethane	1.166	85	30317	19.700	ug/l	93
3) Chloromethane	1.294	50	35661	19.347	ug/l	99
4) Vinyl Chloride	1.374	62	34181	19.218	ug/l	99
5) Bromomethane	1.593	94	12263	19.807	ug/l	95
6) Chloroethane	1.666	64	21729	22.556	ug/l	92
7) Trichlorofluoromethane	1.873	101	46814	19.583	ug/l	97
8) Diethyl Ether	2.130	74	17455	19.298	ug/l	94
9) 1,1,2-Trichlorotrifluo...	2.319	101	28531	20.095	ug/l	97
10) 1,1-Dichloroethene	2.312	96	27222	19.629	ug/l	96
11) Methyl Iodide	2.447	142	28086	17.893	ug/l	96
12) Methyl Acetate	2.697	43	31701	19.685	ug/l	97
13) Acrolein	2.233	56	32563	100.878	ug/l	98
14) Acrylonitrile	3.056	53	77615	98.669	ug/l	99
15) Acetone	2.380	58	25331	117.416	ug/l	93
16) Carbon Disulfide	2.501	76	75184	19.113	ug/l	97
17) Allyl chloride	2.654	41	50275	19.383	ug/l	99
18) Methylene Chloride	2.782	84	30281	19.413	ug/l	96
19) trans-1,2-Dichloroethene	3.081	96	27311	19.465	ug/l	94
20) Diisopropyl ether	3.751	45	98247	19.711	ug/l	92
21) 1,1-Dichloroethane	3.599	63	52481	18.932	ug/l	99
22) cis-1,2-Dichloroethene	4.477	96	32479	19.317	ug/l	98
23) tert-Butyl Alcohol	2.977	59	27200	99.049	ug/l #	100
24) Methyl tert-Butyl Ether	3.111	73	86289	19.064	ug/l	100
25) Chloroform	5.080	83	51600	19.271	ug/l	95
26) Cyclohexane	5.458	56	51227	20.020	ug/l #	99
29) 1,1-Dichloropropene	5.684	75	37069	20.091	ug/l	99
30) 2-Butanone	4.550	43	112362	105.435	ug/l	100
31) 2,2-Dichloropropane	4.465	77	40198	19.268	ug/l	99
32) 1,1,1-Trichloroethane	5.373	97	44099	19.726	ug/l	99
33) Carbon Tetrachloride	5.665	117	37233	19.735	ug/l	98
34) Benzene	6.025	78	115403	19.945	ug/l	98
35) Methacrylonitrile	4.910	41	22078	19.360	ug/l	93
36) 1,2-Dichloroethane	6.080	62	39270	19.824	ug/l	99
37) Trichloroethene	7.116	130	26992	19.940	ug/l	94
38) Methylcyclohexane	7.372	83	49109	19.823	ug/l	99
39) 1,2-Dichloropropane	7.421	63	28495	19.809	ug/l	98
40) Dibromomethane	7.574	93	20463	19.824	ug/l	98
41) Bromodichloromethane	7.818	83	39398	19.203	ug/l	99
42) Vinyl Acetate	3.715	43	405154	97.970	ug/l	100

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Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
43) Ethyl Acetate	4.708	43	40449	20.239	ug/l	99
44) Isopropyl Acetate	6.330	43	64968	19.751	ug/l	97
45) 1,4-Dioxane	7.659	88	13681	400.101	ug/l	97
46) Methyl methacrylate	7.690	41	31134	19.303	ug/l	99
47) n-amyl Acetate	10.841	43	56929	19.945	ug/l	100
48) t-1,3-Dichloropropene	8.976	75	37253	18.838	ug/l	97
49) cis-1,3-Dichloropropene	8.360	75	44071	19.687	ug/l	98
50) 1,1,2-Trichloroethane	9.147	97	27405	20.354	ug/l	98
51) Ethyl methacrylate	9.116	69	42700	20.164	ug/l	97
52) 1,3-Dichloropropane	9.305	76	46968	19.908	ug/l	96
53) Dibromochloromethane	9.518	129	29076	19.525	ug/l	94
54) 1,2-Dibromoethane	9.604	107	27344	19.999	ug/l	97
55) 2-Chloroethyl vinyl ether	8.232	63	111604	102.629	ug/l	98
56) Bromoform	10.799	173	17967	19.254	ug/l	98
58) 4-Methyl-2-Pentanone	8.567	43	214176	101.492	ug/l	100
59) 2-Hexanone	9.427	43	159263	104.412	ug/l	99
61) Tetrachloroethene	9.268	164	22706	19.877	ug/l	99
62) Toluene	8.714	91	121486	19.769	ug/l	100
64) Chlorobenzene	10.073	112	76212	20.013	ug/l	99
65) 1,1,1,2-Tetrachloroethane	10.159	131	24769	19.712	ug/l	99
66) Ethyl Benzene	10.189	91	134942	20.057	ug/l	97
67) m/p-Xylenes	10.299	106	102236	40.785	ug/l	100
68) o-Xylene	10.640	106	49611	20.171	ug/l	99
69) Styrene	10.652	104	80872	19.688	ug/l	99
70) Isopropylbenzene	10.957	105	129199	20.356	ug/l	100
71) 1,1,2,2-Tetrachloroethane	11.207	83	42889	20.550	ug/l	97
72) 1,2,3-Trichloropropane	11.238	75	33307m	19.403	ug/l	
73) Bromobenzene	11.195	156	29294	20.049	ug/l	98
74) n-propylbenzene	11.299	91	150510	19.927	ug/l	99
75) 2-Chlorotoluene	11.360	91	92510	20.260	ug/l	99
76) 1,3,5-Trimethylbenzene	11.445	105	107064	20.447	ug/l	98
77) t-1,4-Dichloro-2-butene	11.018	75	10141	17.559	ug/l	95
78) 4-Chlorotoluene	11.451	91	100894	19.822	ug/l	99
79) tert-butylbenzene	11.713	119	107098	20.300	ug/l	99
80) 1,2,4-Trimethylbenzene	11.750	105	107525	20.500	ug/l	98
81) sec-Butylbenzene	11.890	105	136383	20.598	ug/l	100
82) p-Isopropyltoluene	12.006	119	110175	20.536	ug/l	99
83) 1,3-Dichlorobenzene	11.969	146	54888	20.190	ug/l	100
84) 1,4-Dichlorobenzene	12.036	146	54160	20.206	ug/l	99
85) n-Butylbenzene	12.329	91	98797	20.166	ug/l	99
86) Hexachloroethane	12.536	117	18124	19.155	ug/l	99
87) 1,2-Dichlorobenzene	12.335	146	54478	20.424	ug/l	99
88) 1,2-Dibromo-3-Chloropr...	12.939	75	7721	19.107	ug/l	99
89) 1,2,4-Trichlorobenzene	13.585	180	31982	19.783	ug/l	97
90) Hexachlorobutadiene	13.725	225	13446	20.395	ug/l	98
91) Naphthalene	13.774	128	115009	20.175	ug/l	99
92) 1,2,3-Trichlorobenzene	13.957	180	32741	19.672	ug/l	98

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

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