

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX020725\
 Data File : VX044866.D
 Acq On : 07 Feb 2025 15:43
 Operator : JC/MD
 Sample : VSTDC0020
 Misc : 5.0mL/MSVOA_X/WATER
 ALS Vial : 12 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 VSTDC0020EC

Manual Integrations
 APPROVED

Reviewed By : John Carlone 02/10/2025
 Supervised By : Mahesh Dadoda 02/10/2025

Quant Time: Feb 07 22:15:39 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\624X011625W.M
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
 QLast Update : Fri Jan 17 01:21:41 2025
 Response via : Initial Calibration

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

Internal Standards						
1) Bromochloromethane	4.885	128	21759	30.000	ug/l	0.00
28) 1,4-Difluorobenzene	6.751	114	118610	30.000	ug/l	0.00
57) Chlorobenzene-d5	10.049	117	121071	30.000	ug/l	0.00
System Monitoring Compounds						
27) 1,2-Dichloroethane-d4	5.946	65	59261	28.211	ug/l	0.00
Spiked Amount 30.000	Range 91 - 110		Recovery =	94.033%		
60) 4-Bromofluorobenzene	11.079	95	69438	29.528	ug/l	0.00
Spiked Amount 30.000	Range 63 - 112		Recovery =	98.433%		
63) Toluene-d8	8.641	98	175533	26.656	ug/l	0.00
Spiked Amount 30.000	Range 91 - 112		Recovery =	88.867%#		
Target Compounds						Qvalue
2) Dichlorodifluoromethane	1.167	85	36019	18.618	ug/l	95
3) Chloromethane	1.301	50	40218	19.763	ug/l	97
4) Vinyl Chloride	1.374	62	38564	19.368	ug/l	99
5) Bromomethane	1.593	94	13019	27.053	ug/l	95
6) Chloroethane	1.673	64	20937	66.316	ug/l	95
7) Trichlorofluoromethane	1.880	101	54728	25.098	ug/l	99
8) Diethyl Ether	2.130	74	19225	22.854	ug/l	92
9) 1,1,2-Trichlorotrifluo...	2.319	101	32823	21.010	ug/l	98
10) 1,1-Dichloroethene	2.313	96	31939	19.873	ug/l	94
11) Methyl Iodide	2.447	142	40260	18.077	ug/l	97
12) Methyl Acetate	2.697	43	57105	24.337	ug/l	100
13) Acrolein	2.233	56	27467	105.853	ug/l	100
14) Acrylonitrile	3.056	53	98157	114.803	ug/l	98
15) Acetone	2.374	58	25075	109.295	ug/l	93
16) Carbon Disulfide	2.502	76	81136	18.165	ug/l	100
17) Allyl chloride	2.654	41	57464	19.826	ug/l	99
18) Methylene Chloride	2.782	84	36181	20.116	ug/l	98
19) trans-1,2-Dichloroethene	3.087	96	30982	19.387	ug/l	98
20) Diisopropyl ether	3.751	45	113243	21.526	ug/l	94
21) 1,1-Dichloroethane	3.599	63	63130	20.229	ug/l	96
22) cis-1,2-Dichloroethene	4.477	96	38071	19.247	ug/l	98
23) tert-Butyl Alcohol	2.959	59	35849	86.688	ug/l #	100
24) Methyl tert-Butyl Ether	3.111	73	105548	18.954	ug/l	99
25) Chloroform	5.080	83	61627	19.874	ug/l	99
26) Cyclohexane	5.458	56	55273	21.074	ug/l #	96
29) 1,1-Dichloropropene	5.678	75	42782	20.737	ug/l	99
30) 2-Butanone	4.550	43	129395	114.176	ug/l	98
31) 2,2-Dichloropropane	4.471	77	49809	17.447	ug/l	98
32) 1,1,1-Trichloroethane	5.373	97	52386	19.161	ug/l	98
33) Carbon Tetrachloride	5.660	117	42388	18.379	ug/l	97
34) Benzene	6.025	78	133629	20.302	ug/l	98
35) Methacrylonitrile	4.910	41	27975	22.086	ug/l	96
36) 1,2-Dichloroethane	6.074	62	44655	18.975	ug/l	100
37) Trichloroethene	7.117	130	30684	19.308	ug/l	97
38) Methylcyclohexane	7.373	83	57407	20.480	ug/l	99
39) 1,2-Dichloropropane	7.421	63	33714	20.540	ug/l	96
40) Dibromomethane	7.574	93	23720	19.439	ug/l	99
41) Bromodichloromethane	7.818	83	47686	18.926	ug/l	99
42) Vinyl Acetate	3.715	43	454774	101.045	ug/l	97

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Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
43) Ethyl Acetate	4.709	43	49157	22.112	ug/l #	94
44) Isopropyl Acetate	6.336	43	81817	20.486	ug/l	98
45) 1,4-Dioxane	7.653	88	14728	387.270	ug/l	96
46) Methyl methacrylate	7.690	41	36598	18.721	ug/l	99
47) n-amyl Acetate	10.842	43	74587	22.253	ug/l	99
48) t-1,3-Dichloropropene	8.976	75	46014	17.302	ug/l	100
49) cis-1,3-Dichloropropene	8.360	75	52684	18.475	ug/l	97
50) 1,1,2-Trichloroethane	9.147	97	32714	20.816	ug/l	97
51) Ethyl methacrylate	9.116	69	52180	19.113	ug/l	98
52) 1,3-Dichloropropane	9.305	76	55852	20.548	ug/l	100
53) Dibromochloromethane	9.519	129	37882	20.172	ug/l	97
54) 1,2-Dibromoethane	9.604	107	35162	21.165	ug/l	98
55) 2-Chloroethyl vinyl ether	8.232	63	142221	107.363	ug/l	98
56) Bromoform	10.799	173	24706	19.840	ug/l	97
58) 4-Methyl-2-Pentanone	8.568	43	259561	101.709	ug/l	97
59) 2-Hexanone	9.427	43	190972	102.215	ug/l	99
61) Tetrachloroethene	9.269	164	25877	17.818	ug/l	98
62) Toluene	8.714	91	140219	17.589	ug/l	99
64) Chlorobenzene	10.073	112	99102	20.016	ug/l	98
65) 1,1,1,2-Tetrachloroethane	10.159	131	31906	17.940	ug/l	98
66) Ethyl Benzene	10.189	91	173677	19.963	ug/l	98
67) m/p-Xylenes	10.299	106	129665	40.545	ug/l	100
68) o-Xylene	10.640	106	63902	19.909	ug/l	99
69) Styrene	10.653	104	106631	20.234	ug/l	100
70) Isopropylbenzene	10.957	105	166174	20.594	ug/l	98
71) 1,1,2,2-Tetrachloroethane	11.207	83	57475	21.188	ug/l	98
72) 1,2,3-Trichloropropane	11.238	75	46628m	20.432	ug/l	
73) Bromobenzene	11.195	156	37125	19.750	ug/l	100
74) n-propylbenzene	11.299	91	192476	21.001	ug/l	99
75) 2-Chlorotoluene	11.360	91	118244	20.521	ug/l	99
76) 1,3,5-Trimethylbenzene	11.445	105	138060	21.069	ug/l	98
77) t-1,4-Dichloro-2-butene	11.012	75	16986	15.733	ug/l	88
78) 4-Chlorotoluene	11.451	91	132278	20.834	ug/l	99
79) tert-butylbenzene	11.713	119	124846	18.546	ug/l	97
80) 1,2,4-Trimethylbenzene	11.750	105	122835	18.579	ug/l	98
81) sec-Butylbenzene	11.890	105	156826	19.509	ug/l	99
82) p-Isopropyltoluene	12.006	119	127635	19.293	ug/l	99
83) 1,3-Dichlorobenzene	11.969	146	63696	19.078	ug/l	97
84) 1,4-Dichlorobenzene	12.037	146	60889	18.603	ug/l	99
85) n-Butylbenzene	12.329	91	113610	19.811	ug/l	98
86) Hexachloroethane	12.536	117	22199	15.253	ug/l	99
87) 1,2-Dichlorobenzene	12.335	146	64125	19.233	ug/l	98
88) 1,2-Dibromo-3-Chloropr...	12.939	75	9039	13.835	ug/l	94
89) 1,2,4-Trichlorobenzene	13.585	180	36789	17.756	ug/l	99
90) Hexachlorobutadiene	13.725	225	15477	19.312	ug/l	99
91) Naphthalene	13.774	128	132884	17.143	ug/l	99
92) 1,2,3-Trichlorobenzene	13.957	180	36407	17.276	ug/l	98

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

