

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX011625\
 Data File : VX044660.D
 Acq On : 16 Jan 2025 09:02
 Operator :
 Sample : VSTDICCC020
 Misc : 5.0mL/MSVOA_X/WATER
 ALS Vial : 3 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 VSTDICCC020

Manual Integrations
 APPROVED

Reviewed By :Mahesh Dadoda 01/17/2025
 Supervised By :Semsettin Yesilyurt 01/17/2025

Quant Time: Jan 17 01:00:56 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\624X011625W.M
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
 QLast Update : Fri Jan 17 00:59:31 2025
 Response via : Initial Calibration

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

Internal Standards						
1) Bromochloromethane	4.891	128	33434	30.000	ug/l	0.00
28) 1,4-Difluorobenzene	6.757	114	183316	30.000	ug/l	0.00
57) Chlorobenzene-d5	10.049	117	165841	30.000	ug/l	0.00
System Monitoring Compounds						
27) 1,2-Dichloroethane-d4	5.946	65	95855	29.698	ug/l	0.00
Spiked Amount 30.000	Range 91 - 110		Recovery =	99.000%		
60) 4-Bromofluorobenzene	11.079	95	95915	29.776	ug/l	0.00
Spiked Amount 30.000	Range 63 - 112		Recovery =	99.267%		
63) Toluene-d8	8.641	98	268606	29.779	ug/l	0.00
Spiked Amount 30.000	Range 91 - 112		Recovery =	99.267%		
Target Compounds					Qvalue	
2) Dichlorodifluoromethane	1.166	85	59011	21.978	ug/l	100
3) Chloromethane	1.301	50	64444	20.609	ug/l	100
4) Vinyl Chloride	1.374	62	61288	20.032	ug/l	100
5) Bromomethane	1.593	94	14449	19.557	ug/l	100
6) Chloroethane	1.666	64	9612	19.455	ug/l	100
7) Trichlorofluoromethane	1.867	101	66116	19.733	ug/l	100
8) Diethyl Ether	2.136	74	25682	19.869	ug/l	100
9) 1,1,2-Trichlorotrifluo...	2.319	101	46585	19.407	ug/l	100
10) 1,1-Dichloroethene	2.313	96	48300	19.557	ug/l	100
11) Methyl Iodide	2.447	142	69610	20.341	ug/l	100
12) Methyl Acetate	2.703	43	70020	19.421	ug/l	100
13) Acrolein	2.239	56	32834	82.358	ug/l	100
14) Acrylonitrile	3.062	53	133148	101.348	ug/l	100
15) Acetone	2.386	58	34632	98.240	ug/l	100
16) Carbon Disulfide	2.502	76	135960	19.810	ug/l	100
17) Allyl chloride	2.654	41	90204	20.254	ug/l	100
18) Methylene Chloride	2.782	84	56413	20.405	ug/l	100
19) trans-1,2-Dichloroethene	3.081	96	49084	19.989	ug/l	100
20) Diisopropyl ether	3.757	45	166654	20.616	ug/l	100
21) 1,1-Dichloroethane	3.605	63	96629	20.151	ug/l	100
22) cis-1,2-Dichloroethene	4.483	96	62694	20.628	ug/l	100
23) tert-Butyl Alcohol	2.977	59	65050m	114.131	ug/l	
24) Methyl tert-Butyl Ether	3.111	73	174439	20.386	ug/l	100
25) Chloroform	5.086	83	97039	20.366	ug/l	100
26) Cyclohexane	5.458	56	79956	19.839	ug/l #	100
29) 1,1-Dichloropropene	5.684	75	63605	19.948	ug/l	100
30) 2-Butanone	4.556	43	180079	102.811	ug/l	100
31) 2,2-Dichloropropane	4.471	77	89122	20.198	ug/l	100
32) 1,1,1-Trichloroethane	5.373	97	85820	20.310	ug/l	100
33) Carbon Tetrachloride	5.666	117	71722	20.121	ug/l	100
34) Benzene	6.031	78	210959	20.737	ug/l	100
35) Methacrylonitrile	4.922	41	39575	20.216	ug/l	100
36) 1,2-Dichloroethane	6.080	62	75287	20.699	ug/l	100
37) Trichloroethene	7.123	130	49474	20.143	ug/l	100
38) Methylcyclohexane	7.373	83	84540	19.514	ug/l	100
39) 1,2-Dichloropropane	7.421	63	52299	20.616	ug/l	100
40) Dibromomethane	7.580	93	38410	20.366	ug/l	100
41) Bromodichloromethane	7.818	83	80017	20.548	ug/l	100
42) Vinyl Acetate	3.715	43	725170	104.251	ug/l	100

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Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
43) Ethyl Acetate	4.715	43	72396m	21.071	ug/l	
44) Isopropyl Acetate	6.336	43	127474	20.652	ug/l	100
45) 1,4-Dioxane	7.677	88	25021	425.692	ug/l	100
46) Methyl methacrylate	7.690	41	62145	20.568	ug/l	100
47) n-amyl Acetate	10.841	43	110225	21.278	ug/l	100
48) t-1,3-Dichloropropene	8.976	75	85014	20.683	ug/l	100
49) cis-1,3-Dichloropropene	8.360	75	91440	20.747	ug/l	100
50) 1,1,2-Trichloroethane	9.147	97	51190	21.040	ug/l	100
51) Ethyl methacrylate	9.116	69	88025	20.861	ug/l	100
52) 1,3-Dichloropropane	9.305	76	87800	20.900	ug/l	100
53) Dibromochloromethane	9.519	129	61431	21.165	ug/l	100
54) 1,2-Dibromoethane	9.604	107	53825	20.963	ug/l	100
55) 2-Chloroethyl vinyl ether	8.238	63	214240	104.779	ug/l	100
56) Bromoform	10.799	173	39538	20.544	ug/l	100
58) 4-Methyl-2-Pentanone	8.574	43	358614	102.588	ug/l	100
59) 2-Hexanone	9.433	43	261785	102.292	ug/l	100
61) Tetrachloroethene	9.269	164	38724	19.466	ug/l	100
62) Toluene	8.714	91	218070	19.970	ug/l	100
64) Chlorobenzene	10.073	112	136037	20.059	ug/l	100
65) 1,1,1,2-Tetrachloroethane	10.159	131	49228	20.207	ug/l	100
66) Ethyl Benzene	10.189	91	241177	20.238	ug/l	100
67) m/p-Xylenes	10.299	106	180626	41.233	ug/l	100
68) o-Xylene	10.640	106	90982	20.694	ug/l	100
69) Styrene	10.652	104	150095	20.793	ug/l	100
70) Isopropylbenzene	10.957	105	226317	20.476	ug/l	100
71) 1,1,2,2-Tetrachloroethane	11.207	83	75650	20.326	ug/l	100
72) 1,2,3-Trichloropropane	11.238	75	64385m	20.597	ug/l	
73) Bromobenzene	11.195	156	52618	20.435	ug/l	100
74) n-propylbenzene	11.299	91	255513	20.339	ug/l	100
75) 2-Chlorotoluene	11.360	91	162457	20.573	ug/l	100
76) 1,3,5-Trimethylbenzene	11.451	105	185378	20.653	ug/l	100
77) t-1,4-Dichloro-2-butene	11.018	75	29516	19.959	ug/l	100
78) 4-Chlorotoluene	11.451	91	177891	20.455	ug/l	100
79) tert-butylbenzene	11.713	119	191290	20.745	ug/l	100
80) 1,2,4-Trimethylbenzene	11.750	105	186763	20.623	ug/l	100
81) sec-Butylbenzene	11.890	105	224992	20.434	ug/l	100
82) p-Isopropyltoluene	12.006	119	186107	20.537	ug/l	100
83) 1,3-Dichlorobenzene	11.969	146	92976	20.330	ug/l	100
84) 1,4-Dichlorobenzene	12.036	146	92092	20.540	ug/l	100
85) n-Butylbenzene	12.329	91	156896	19.973	ug/l	100
86) Hexachloroethane	12.536	117	39754	19.941	ug/l	100
87) 1,2-Dichlorobenzene	12.335	146	94144	20.614	ug/l	100
88) 1,2-Dibromo-3-Chloropr...	12.939	75	17538	19.597	ug/l	100
89) 1,2,4-Trichlorobenzene	13.585	180	54885	19.338	ug/l	100
90) Hexachlorobutadiene	13.725	225	21996	20.036	ug/l	100
91) Naphthalene	13.774	128	214309	20.183	ug/l	100
92) 1,2,3-Trichlorobenzene	13.957	180	58101	20.127	ug/l	100

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

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