

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX020725\
 Data File : VX044856.D
 Acq On : 07 Feb 2025 10:01
 Operator : JC/MD
 Sample : VSTDCCC020
 Misc : 5.0mL/MSVOA_X/WATER
 ALS Vial : 2 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 VSTDCCC020

Manual Integrations
 APPROVED

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

Quant Time: Feb 07 22:09:51 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	4.891	128	21982	30.000	ug/l	0.00
28) 1,4-Difluorobenzene	6.751	114	127777	30.000	ug/l	0.00
57) Chlorobenzene-d5	10.049	117	110326	30.000	ug/l	0.00
System Monitoring Compounds						
27) 1,2-Dichloroethane-d4	5.946	65	62760	29.574	ug/l	0.00
Spiked Amount 30.000	Range	91 - 110	Recovery	=	98.567%	
60) 4-Bromofluorobenzene	11.079	95	60460	28.214	ug/l	0.00
Spiked Amount 30.000	Range	63 - 112	Recovery	=	94.033%	
63) Toluene-d8	8.641	98	184306	30.715	ug/l	0.00
Spiked Amount 30.000	Range	91 - 112	Recovery	=	102.367%	
Target Compounds						Qvalue
2) Dichlorodifluoromethane	1.167	85	38681	19.791	ug/l	97
3) Chloromethane	1.301	50	42278	20.564	ug/l	97
4) Vinyl Chloride	1.374	62	41628	20.694	ug/l	96
5) Bromomethane	1.593	94	12595	25.907	ug/l	97
6) Chloroethane	1.666	64	20717	64.954	ug/l	99
7) Trichlorofluoromethane	1.874	101	55890	25.371	ug/l	100
8) Diethyl Ether	2.130	74	20088	23.637	ug/l	91
9) 1,1,2-Trichlorotrifluo...	2.319	101	34708	21.992	ug/l	98
10) 1,1-Dichloroethene	2.313	96	33764	20.795	ug/l	92
11) Methyl Iodide	2.447	142	43273	19.232	ug/l	99
12) Methyl Acetate	2.697	43	58515	24.685	ug/l	96
13) Acrolein	2.233	56	29319	111.844	ug/l	99
14) Acrylonitrile	3.063	53	100150	115.945	ug/l	98
15) Acetone	2.380	58	26153	112.837	ug/l	94
16) Carbon Disulfide	2.502	76	88049	19.513	ug/l	99
17) Allyl chloride	2.654	41	61903	21.141	ug/l	96
18) Methylene Chloride	2.782	84	37753	20.777	ug/l	95
19) trans-1,2-Dichloroethene	3.081	96	33403	20.689	ug/l	97
20) Diisopropyl ether	3.751	45	121085	22.783	ug/l	91
21) 1,1-Dichloroethane	3.599	63	66264	21.018	ug/l	98
22) cis-1,2-Dichloroethene	4.483	96	41572	20.804	ug/l	98
23) tert-Butyl Alcohol	2.971	59	37368	89.445	ug/l #	100
24) Methyl tert-Butyl Ether	3.111	73	110896	19.712	ug/l	100
25) Chloroform	5.080	83	64304	20.527	ug/l	96
26) Cyclohexane	5.458	56	59159	22.326	ug/l #	97
29) 1,1-Dichloropropene	5.684	75	45030	20.261	ug/l	98
30) 2-Butanone	4.550	43	131275	107.525	ug/l	99
31) 2,2-Dichloropropane	4.465	77	54146	17.605	ug/l	99
32) 1,1,1-Trichloroethane	5.373	97	54507	18.506	ug/l	96
33) Carbon Tetrachloride	5.666	117	44931	18.084	ug/l	96
34) Benzene	6.032	78	144891	20.434	ug/l	98
35) Methacrylonitrile	4.916	41	28022	20.536	ug/l	97
36) 1,2-Dichloroethane	6.074	62	47132	18.591	ug/l	99
37) Trichloroethene	7.117	130	32691	19.095	ug/l	99
38) Methylcyclohexane	7.373	83	61391	20.330	ug/l	99
39) 1,2-Dichloropropane	7.422	63	36029	20.376	ug/l	99
40) Dibromomethane	7.574	93	25309	19.253	ug/l	99
41) Bromodichloromethane	7.818	83	50263	18.517	ug/l	100
42) Vinyl Acetate	3.715	43	472565	97.465	ug/l	98

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Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
43) Ethyl Acetate	4.709	43	49972	20.866	ug/l	# 94
44) Isopropyl Acetate	6.336	43	83898	19.500	ug/l	97
45) 1,4-Dioxane	7.659	88	16798	410.012	ug/l	96
46) Methyl methacrylate	7.690	41	39054	18.544	ug/l	97
47) n-amyl Acetate	10.842	43	66186	18.330	ug/l	98
48) t-1,3-Dichloropropene	8.976	75	48829	17.043	ug/l	99
49) cis-1,3-Dichloropropene	8.360	75	55813	18.168	ug/l	97
50) 1,1,2-Trichloroethane	9.147	97	33901	20.024	ug/l	98
51) Ethyl methacrylate	9.110	69	52415	17.821	ug/l	92
52) 1,3-Dichloropropane	9.305	76	58140	19.855	ug/l	99
53) Dibromochloromethane	9.519	129	36378	17.982	ug/l	98
54) 1,2-Dibromoethane	9.604	107	33803	18.887	ug/l	100
55) 2-Chloroethyl vinyl ether	8.238	63	131426	92.096	ug/l	98
56) Bromoform	10.799	173	22911	17.079	ug/l	99
58) 4-Methyl-2-Pentanone	8.568	43	260866	112.176	ug/l	97
59) 2-Hexanone	9.427	43	186586	109.594	ug/l	98
61) Tetrachloroethene	9.269	164	27625	20.874	ug/l	96
62) Toluene	8.714	91	148843	20.489	ug/l	98
64) Chlorobenzene	10.073	112	93379	20.697	ug/l	98
65) 1,1,1,2-Tetrachloroethane	10.159	131	29766	18.366	ug/l	99
66) Ethyl Benzene	10.189	91	161727	20.400	ug/l	98
67) m/p-Xylenes	10.299	106	123472	42.369	ug/l	96
68) o-Xylene	10.640	106	60359	20.637	ug/l	98
69) Styrene	10.653	104	98668	20.547	ug/l	98
70) Isopropylbenzene	10.957	105	155103	21.094	ug/l	99
71) 1,1,2,2-Tetrachloroethane	11.207	83	50682	20.504	ug/l	98
72) 1,2,3-Trichloropropane	11.238	75	41926m	20.161	ug/l	
73) Bromobenzene	11.195	156	34212	19.973	ug/l	97
74) n-propylbenzene	11.299	91	179572	21.501	ug/l	99
75) 2-Chlorotoluene	11.360	91	106713	20.324	ug/l	99
76) 1,3,5-Trimethylbenzene	11.451	105	125572	21.029	ug/l	99
77) t-1,4-Dichloro-2-butene	11.012	75	15500	15.755	ug/l	92
78) 4-Chlorotoluene	11.451	91	117523	20.313	ug/l	98
79) tert-butylbenzene	11.713	119	126472	20.617	ug/l	99
80) 1,2,4-Trimethylbenzene	11.750	105	124696	20.698	ug/l	100
81) sec-Butylbenzene	11.890	105	157354	21.482	ug/l	100
82) p-Isopropyltoluene	12.006	119	126371	20.962	ug/l	99
83) 1,3-Dichlorobenzene	11.969	146	61987	20.374	ug/l	99
84) 1,4-Dichlorobenzene	12.037	146	61448	20.602	ug/l	97
85) n-Butylbenzene	12.329	91	111034	21.247	ug/l	99
86) Hexachloroethane	12.536	117	23450	17.682	ug/l	95
87) 1,2-Dichlorobenzene	12.335	146	61141	20.124	ug/l	99
88) 1,2-Dibromo-3-Chloropr...	12.939	75	9565	16.066	ug/l	99
89) 1,2,4-Trichlorobenzene	13.585	180	35685	18.900	ug/l	98
90) Hexachlorobutadiene	13.725	225	15274	20.914	ug/l	98
91) Naphthalene	13.774	128	132248	18.722	ug/l	99
92) 1,2,3-Trichlorobenzene	13.957	180	36318	18.912	ug/l	99

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

