

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX031425\
 Data File : VX045295.D
 Acq On : 14 Mar 2025 16:41
 Operator : JC/MD
 Sample : VSTDCCC020
 Misc : 5.0mL/MSVOA_X/WATER
 ALS Vial : 12 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 VSTDCCC020EC

Quant Time: Mar 15 04:00:57 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

Manual Integrations APPROVED

Reviewed By :John
 Carlone

03/18/2025
 Supervised By :Mahesh
 Dadoda

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

Internal Standards						
1) Bromochloromethane	4.898	128	14913	30.000	ug/l	0.01
28) 1,4-Difluorobenzene	6.757	114	82547	30.000	ug/l	0.00
57) Chlorobenzene-d5	10.049	117	78499	30.000	ug/l	0.00
System Monitoring Compounds						
27) 1,2-Dichloroethane-d4	5.952	65	49158	33.939	ug/l	0.00
Spiked Amount 30.000	Range 91 - 110		Recovery = 113.133%#			
60) 4-Bromofluorobenzene	11.079	95	45598	31.077	ug/l	0.00
Spiked Amount 30.000	Range 63 - 112		Recovery = 103.600%			
63) Toluene-d8	8.647	98	128136	29.506	ug/l	0.00
Spiked Amount 30.000	Range 91 - 112		Recovery = 98.367%			
Target Compounds						
					Qvalue	
2) Dichlorodifluoromethane	1.167	85	24875	19.787	ug/l	94
3) Chloromethane	1.307	50	27385	18.187	ug/l	97
4) Vinyl Chloride	1.374	62	25142	17.304	ug/l	99
5) Bromomethane	1.593	94	10998	21.746	ug/l	92
6) Chloroethane	1.660	64	13622	17.310	ug/l	97
7) Trichlorofluoromethane	1.868	101	37044	18.970	ug/l	98
8) Diethyl Ether	2.130	74	12557	16.995	ug/l	95
9) 1,1,2-Trichlorotrifluo...	2.319	101	23240	20.038	ug/l	97
10) 1,1-Dichloroethene	2.307	96	22725	20.060	ug/l	89
11) Methyl Iodide	2.441	142	25708	20.050	ug/l	96
12) Methyl Acetate	2.703	43	41105	31.246	ug/l	99
13) Acrolein	2.233	56	23897	90.627	ug/l	98
14) Acrylonitrile	3.063	53	73521	114.416	ug/l	98
15) Acetone	2.386	58	20357	115.513	ug/l	88
16) Carbon Disulfide	2.502	76	46842	14.577	ug/l	99
17) Allyl chloride	2.660	41	40660	19.190	ug/l	96
18) Methylene Chloride	2.782	84	25681	20.154	ug/l	93
19) trans-1,2-Dichloroethene	3.081	96	22231	19.396	ug/l	92
20) Diisopropyl ether	3.758	45	85235	20.933	ug/l	91
21) 1,1-Dichloroethane	3.605	63	47367	20.917	ug/l	99
22) cis-1,2-Dichloroethene	4.489	96	27867	20.290	ug/l	96
23) tert-Butyl Alcohol	2.977	59	25020m	111.534	ug/l	
24) Methyl tert-Butyl Ether	3.111	73	80763	21.843	ug/l	95
25) Chloroform	5.087	83	48273	22.070	ug/l	99
26) Cyclohexane	5.465	56	41269	19.744	ug/l #	99
29) 1,1-Dichloropropene	5.690	75	31137	20.505	ug/l	99
30) 2-Butanone	4.556	43	106516	121.447	ug/l #	96
31) 2,2-Dichloropropane	4.465	77	31661	18.440	ug/l	98
32) 1,1,1-Trichloroethane	5.373	97	38591	20.975	ug/l	99
33) Carbon Tetrachloride	5.666	117	30671	19.753	ug/l	94
34) Benzene	6.032	78	99904	20.980	ug/l	97
35) Methacrylonitrile	4.922	41	22637	24.119	ug/l	96
36) 1,2-Dichloroethane	6.080	62	37897	23.245	ug/l	95
37) Trichloroethene	7.123	130	22911	20.566	ug/l	98
38) Methylcyclohexane	7.373	83	40469	19.849	ug/l	99
39) 1,2-Dichloropropane	7.428	63	25228	21.310	ug/l	100
40) Dibromomethane	7.580	93	18267	21.502	ug/l	96
41) Bromodichloromethane	7.818	83	35324	20.921	ug/l	99
42) Vinyl Acetate	3.715	43	347216	102.018	ug/l	99

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Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
43) Ethyl Acetate	4.715	43	37840	23.006	ug/l	99
44) Isopropyl Acetate	6.336	43	60179	22.230	ug/l	99
45) 1,4-Dioxane	7.659	88	10893	387.082	ug/l	97
46) Methyl methacrylate	7.690	41	31882	24.018	ug/l	93
47) n-amyl Acetate	10.842	43	52652	22.414	ug/l	98
48) t-1,3-Dichloropropene	8.976	75	29468	18.106	ug/l	99
49) cis-1,3-Dichloropropene	8.366	75	35803	19.433	ug/l	96
50) 1,1,2-Trichloroethane	9.153	97	24449	22.064	ug/l	99
51) Ethyl methacrylate	9.116	69	39589	22.716	ug/l	97
52) 1,3-Dichloropropane	9.305	76	43921	22.620	ug/l	100
53) Dibromochloromethane	9.519	129	24782	20.221	ug/l	97
54) 1,2-Dibromoethane	9.604	107	25490	22.653	ug/l	98
55) 2-Chloroethyl vinyl ether	8.238	63	101410	113.312	ug/l	99
56) Bromoform	10.799	173	14747	19.202	ug/l	99
58) 4-Methyl-2-Pentanone	8.574	43	217493	121.798	ug/l	100
59) 2-Hexanone	9.427	43	158798	123.031	ug/l	99
61) Tetrachloroethene	9.269	164	19865	20.551	ug/l	97
62) Toluene	8.714	91	104403	20.077	ug/l	100
64) Chlorobenzene	10.080	112	67527	20.956	ug/l	100
65) 1,1,1,2-Tetrachloroethane	10.159	131	20709	19.477	ug/l	98
66) Ethyl Benzene	10.189	91	118710	20.852	ug/l	99
67) m/p-Xylenes	10.299	106	88548	41.745	ug/l	95
68) o-Xylene	10.640	106	44210	21.243	ug/l	100
69) Styrene	10.653	104	72550	20.872	ug/l	98
70) Isopropylbenzene	10.957	105	113976	21.222	ug/l	99
71) 1,1,2,2-Tetrachloroethane	11.207	83	39796	22.534	ug/l	99
72) 1,2,3-Trichloropropane	11.238	75	32502m	22.375	ug/l	
73) Bromobenzene	11.195	156	25784	20.854	ug/l	95
74) n-propylbenzene	11.299	91	135620	21.220	ug/l	98
75) 2-Chlorotoluene	11.360	91	83018	21.486	ug/l	97
76) 1,3,5-Trimethylbenzene	11.451	105	96644	21.812	ug/l	99
77) t-1,4-Dichloro-2-butene	11.018	75	8059	16.490	ug/l	74
78) 4-Chlorotoluene	11.451	91	92044	21.370	ug/l	98
79) tert-butylbenzene	11.713	119	95451	21.381	ug/l	97
80) 1,2,4-Trimethylbenzene	11.750	105	93835	21.142	ug/l	100
81) sec-Butylbenzene	11.890	105	118500	21.150	ug/l	100
82) p-Isopropyltoluene	12.006	119	96201	21.191	ug/l	98
83) 1,3-Dichlorobenzene	11.969	146	46669	20.287	ug/l	97
84) 1,4-Dichlorobenzene	12.043	146	46483	20.494	ug/l	98
85) n-Butylbenzene	12.329	91	85089	20.525	ug/l	98
86) Hexachloroethane	12.536	117	14381	17.962	ug/l	97
87) 1,2-Dichlorobenzene	12.335	146	48133	21.325	ug/l	99
88) 1,2-Dibromo-3-Chloropr...	12.939	75	7621	22.288	ug/l	93
89) 1,2,4-Trichlorobenzene	13.585	180	26933	19.688	ug/l	95
90) Hexachlorobutadiene	13.725	225	11146	19.979	ug/l	98
91) Naphthalene	13.774	128	103822	21.523	ug/l	99
92) 1,2,3-Trichlorobenzene	13.957	180	28381	20.152	ug/l	99

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

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