

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX013025\
 Data File : VX044781.D
 Acq On : 30 Jan 2025 16:00
 Operator : JC/MD
 Sample : VSTDCCC020
 Misc : 5.0mL/MSVOA_X/WATER
 ALS Vial : 14 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 VSTDCCC020EC

Manual Integrations
 APPROVED

Reviewed By : John Carlone 01/31/2025
 Supervised By : Semsettin Yesilyurt 01/31/2025

Quant Time: Jan 31 00:43:14 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	4.879	128	24993	30.000	ug/l	-0.01
28) 1,4-Difluorobenzene	6.751	114	138760	30.000	ug/l	0.00
57) Chlorobenzene-d5	10.049	117	127034	30.000	ug/l	0.00
System Monitoring Compounds						
27) 1,2-Dichloroethane-d4	5.946	65	65031	26.952	ug/l	0.00
Spiked Amount 30.000	Range 91 - 110		Recovery =	89.833%#		
60) 4-Bromofluorobenzene	11.079	95	73020	29.594	ug/l	0.00
Spiked Amount 30.000	Range 63 - 112		Recovery =	98.633%		
63) Toluene-d8	8.641	98	204480	29.595	ug/l	0.00
Spiked Amount 30.000	Range 91 - 112		Recovery =	98.633%		
Target Compounds					Qvalue	
2) Dichlorodifluoromethane	1.166	85	40461	18.208	ug/l	100
3) Chloromethane	1.300	50	48074	20.566	ug/l	99
4) Vinyl Chloride	1.374	62	44276	19.359	ug/l	93
5) Bromomethane	1.593	94	12938	23.406	ug/l	96
6) Chloroethane	1.666	64	23516	64.847	ug/l	99
7) Trichlorofluoromethane	1.873	101	59722	23.844	ug/l	99
8) Diethyl Ether	2.130	74	18486	19.132	ug/l	91
9) 1,1,2-Trichlorotrifluo...	2.318	101	40837	22.758	ug/l	98
10) 1,1-Dichloroethene	2.306	96	37123	20.109	ug/l	90
11) Methyl Iodide	2.440	142	48299	18.880	ug/l	98
12) Methyl Acetate	2.696	43	58879	21.847	ug/l	99
13) Acrolein	2.233	56	33692	113.041	ug/l	96
14) Acrylonitrile	3.056	53	106253	108.191	ug/l	98
15) Acetone	2.379	58	27518	104.423	ug/l	81
16) Carbon Disulfide	2.501	76	101119	19.710	ug/l	98
17) Allyl chloride	2.654	41	66580	19.999	ug/l	96
18) Methylene Chloride	2.782	84	41307	19.994	ug/l	98
19) trans-1,2-Dichloroethene	3.081	96	37592	20.479	ug/l	90
20) Diisopropyl ether	3.751	45	129012	21.350	ug/l	96
21) 1,1-Dichloroethane	3.599	63	71382	19.914	ug/l	99
22) cis-1,2-Dichloroethene	4.477	96	43765	19.263	ug/l	96
23) tert-Butyl Alcohol	2.965	59	47536	100.075	ug/l #	100
24) Methyl tert-Butyl Ether	3.105	73	120959	18.910	ug/l	97
25) Chloroform	5.080	83	70823	19.884	ug/l	93
26) Cyclohexane	5.452	56	66370	22.030	ug/l #	97
29) 1,1-Dichloropropene	5.678	75	47908	19.850	ug/l	97
30) 2-Butanone	4.550	43	139164	104.964	ug/l	100
31) 2,2-Dichloropropane	4.458	77	60605	18.146	ug/l	100
32) 1,1,1-Trichloroethane	5.367	97	60076	18.782	ug/l	97
33) Carbon Tetrachloride	5.665	117	51011	18.906	ug/l	99
34) Benzene	6.025	78	158997	20.648	ug/l	99
35) Methacrylonitrile	4.909	41	30539	20.610	ug/l	97
36) 1,2-Dichloroethane	6.074	62	50703	18.416	ug/l	99
37) Trichloroethene	7.116	130	36535	19.652	ug/l	97
38) Methylcyclohexane	7.372	83	69348	21.147	ug/l	98
39) 1,2-Dichloropropane	7.421	63	39334	20.484	ug/l	97
40) Dibromomethane	7.574	93	27275	19.106	ug/l	99
41) Bromodichloromethane	7.817	83	55456	18.814	ug/l	97
42) Vinyl Acetate	3.708	43	526238	99.944	ug/l	99

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Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
43) Ethyl Acetate	4.702	43	51061	19.633	ug/l #	93
44) Isopropyl Acetate	6.330	43	92530	19.804	ug/l	99
45) 1,4-Dioxane	7.659	88	18184	408.711	ug/l	93
46) Methyl methacrylate	7.689	41	43789	19.147	ug/l	97
47) n-amyl Acetate	10.841	43	83479	21.289	ug/l	99
48) t-1,3-Dichloropropene	8.976	75	56435	18.139	ug/l	99
49) cis-1,3-Dichloropropene	8.360	75	62762	18.813	ug/l	98
50) 1,1,2-Trichloroethane	9.147	97	38475	20.927	ug/l	96
51) Ethyl methacrylate	9.110	69	64044	20.052	ug/l	97
52) 1,3-Dichloropropane	9.305	76	66564	20.933	ug/l	100
53) Dibromochloromethane	9.512	129	42259	19.235	ug/l	98
54) 1,2-Dibromoethane	9.604	107	38037	19.571	ug/l	98
55) 2-Chloroethyl vinyl ether	8.232	63	149222	96.290	ug/l	98
56) Bromoform	10.799	173	27683	19.003	ug/l	99
58) 4-Methyl-2-Pentanone	8.567	43	292928	109.396	ug/l	98
59) 2-Hexanone	9.427	43	213692	109.007	ug/l	99
61) Tetrachloroethene	9.268	164	30824	20.228	ug/l	95
62) Toluene	8.714	91	169079	20.213	ug/l	98
64) Chlorobenzene	10.073	112	105396	20.288	ug/l	100
65) 1,1,1,2-Tetrachloroethane	10.159	131	35025	18.769	ug/l	98
66) Ethyl Benzene	10.189	91	185366	20.306	ug/l	100
67) m/p-Xylenes	10.299	106	140957	42.007	ug/l	96
68) o-Xylene	10.640	106	69885	20.751	ug/l	97
69) Styrene	10.652	104	117582	21.265	ug/l	97
70) Isopropylbenzene	10.957	105	178771	21.115	ug/l	100
71) 1,1,2,2-Tetrachloroethane	11.207	83	60217	21.157	ug/l	97
72) 1,2,3-Trichloropropane	11.238	75	50338m	21.023	ug/l	
73) Bromobenzene	11.195	156	41233	20.906	ug/l	96
74) n-propylbenzene	11.299	91	212583	22.106	ug/l	98
75) 2-Chlorotoluene	11.360	91	128323	21.225	ug/l	100
76) 1,3,5-Trimethylbenzene	11.451	105	146800	21.351	ug/l	99
77) t-1,4-Dichloro-2-butene	11.018	75	19544	17.253	ug/l	96
78) 4-Chlorotoluene	11.451	91	141469	21.236	ug/l	97
79) tert-butylbenzene	11.713	119	154239	21.836	ug/l	97
80) 1,2,4-Trimethylbenzene	11.750	105	149755	21.588	ug/l	98
81) sec-Butylbenzene	11.884	105	191441	22.698	ug/l	99
82) p-Isopropyltoluene	12.006	119	154011	22.187	ug/l	99
83) 1,3-Dichlorobenzene	11.969	146	75428	21.531	ug/l	99
84) 1,4-Dichlorobenzene	12.036	146	75718	22.048	ug/l	99
85) n-Butylbenzene	12.329	91	136414	22.671	ug/l	99
86) Hexachloroethane	12.536	117	29881	19.568	ug/l	98
87) 1,2-Dichlorobenzene	12.335	146	76029	21.733	ug/l	99
88) 1,2-Dibromo-3-Chloropr...	12.939	75	11297	16.480	ug/l	91
89) 1,2,4-Trichlorobenzene	13.585	180	45259	20.818	ug/l	99
90) Hexachlorobutadiene	13.725	225	18411	21.894	ug/l	96
91) Naphthalene	13.774	128	164212	20.190	ug/l	99
92) 1,2,3-Trichlorobenzene	13.957	180	46425	20.996	ug/l	99

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

