

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX022125\
 Data File : VX045018.D
 Acq On : 21 Feb 2025 15:12
 Operator : JC/MD
 Sample : Q1168-07 2.5PPB
 Misc : 5.0mL/MSVOA_X/WATER
 ALS Vial : 12 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 LOD-MDL-WATER-01-QT1-2025

Quant Time: Feb 22 01:15:31 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
 02/24/2025

Supervised By :Mahesh
 Dadoda
 02/24/2025

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)	
Internal Standards							
1) Bromochloromethane	4.885	128	17381	30.000	ug/l	0.00	02/24/2025
28) 1,4-Difluorobenzene	6.751	114	93603	30.000	ug/l	0.00	Supervised By :Mahesh
57) Chlorobenzene-d5	10.049	117	83785	30.000	ug/l	0.00	Dadoda
System Monitoring Compounds							
27) 1,2-Dichloroethane-d4	5.946	65	50182	29.726	ug/l	0.00	02/24/2025
Spiked Amount	30.000	Range	91 - 110	Recovery	=	99.100%	
60) 4-Bromofluorobenzene	11.079	95	45924	29.325	ug/l	0.00	
Spiked Amount	30.000	Range	63 - 112	Recovery	=	97.733%	
63) Toluene-d8	8.640	98	141695	30.570	ug/l	0.00	
Spiked Amount	30.000	Range	91 - 112	Recovery	=	101.900%	
Target Compounds							Qvalue
2) Dichlorodifluoromethane	1.166	85	3698	2.524	ug/l		85
3) Chloromethane	1.294	50	4561	2.599	ug/l		93
4) Vinyl Chloride	1.373	62	4012	2.369	ug/l		99
5) Bromomethane	1.593	94	1791	3.038	ug/l		90
6) Chloroethane	1.672	64	2592	2.826	ug/l		96
7) Trichlorofluoromethane	1.879	101	5578	2.451	ug/l		92
8) Diethyl Ether	2.129	74	2058	2.390	ug/l		96
9) 1,1,2-Trichlorotrifluo...	2.325	101	3374	2.496	ug/l		94
10) 1,1-Dichloroethene	2.312	96	3328	2.521	ug/l		89
11) Methyl Iodide	2.440	142	2841	1.901	ug/l		98
12) Methyl Acetate	2.702	43	3649	2.380	ug/l		98
13) Acrolein	2.233	56	4418	14.376	ug/l		96
14) Acrylonitrile	3.056	53	9493	12.676	ug/l		96
15) Acetone	2.367	58	2779	13.530	ug/l #		67
16) Carbon Disulfide	2.501	76	9772	2.609	ug/l		96
17) Allyl chloride	2.654	41	5977	2.420	ug/l		91
18) Methylene Chloride	2.782	84	3803	2.561	ug/l		94
19) trans-1,2-Dichloroethene	3.080	96	3247	2.431	ug/l		92
20) Diisopropyl ether	3.751	45	11329	2.387	ug/l #		84
21) 1,1-Dichloroethane	3.605	63	6527	2.473	ug/l		97
22) cis-1,2-Dichloroethene	4.489	96	3977m	2.484	ug/l		
23) tert-Butyl Alcohol	2.965	59	4775	18.264	ug/l #		100
24) Methyl tert-Butyl Ether	3.105	73	10560	2.450	ug/l		97
25) Chloroform	5.092	83	6683	2.622	ug/l		88
26) Cyclohexane	5.452	56	6046m	2.482	ug/l		
29) 1,1-Dichloropropene	5.696	75	4319	2.508	ug/l		87
30) 2-Butanone	4.556	43	13100	13.172	ug/l #		95
31) 2,2-Dichloropropane	4.464	77	4670	2.399	ug/l		98
32) 1,1,1-Trichloroethane	5.379	97	5148	2.468	ug/l		99
33) Carbon Tetrachloride	5.665	117	4378m	2.487	ug/l		
34) Benzene	6.037	78	13604	2.519	ug/l		96
35) Methacrylonitrile	4.922	41	2574m	2.419	ug/l		
36) 1,2-Dichloroethane	6.080	62	4588	2.482	ug/l #		89
37) Trichloroethene	7.122	130	3166	2.506	ug/l		95
38) Methylcyclohexane	7.366	83	5731	2.479	ug/l		95
39) 1,2-Dichloropropane	7.427	63	3324	2.476	ug/l #		81
40) Dibromomethane	7.586	93	2432	2.525	ug/l		92
41) Bromodichloromethane	7.817	83	4702	2.456	ug/l #		97
42) Vinyl Acetate	3.721	43	44644	11.568	ug/l		99

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Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)	
43) Ethyl Acetate	4.720	43	4696m	2.518	ug/l		
44) Isopropyl Acetate	6.342	43	6742	2.196	ug/l		
45) 1,4-Dioxane	7.671	88	1758	55.092	ug/l #	87	
46) Methyl methacrylate	7.695	41	3114	2.069	ug/l	92	
47) n-amyl Acetate	10.847	43	5330	2.001	ug/l	94	
48) t-1,3-Dichloropropene	8.982	75	3711	2.011	ug/l	91	
49) cis-1,3-Dichloropropene	8.372	75	5017	2.402	ug/l	88	
50) 1,1,2-Trichloroethane	9.153	97	3178	2.529	ug/l #	90	02/24/2025
51) Ethyl methacrylate	9.116	69	4324	2.188	ug/l	95	
52) 1,3-Dichloropropane	9.311	76	5351	2.430	ug/l	97	
53) Dibromochloromethane	9.518	129	3235	2.328	ug/l	94	
54) 1,2-Dibromoethane	9.610	107	2965	2.324	ug/l	97	
55) 2-Chloroethyl vinyl ether	8.238	63	10489	10.336	ug/l	97	
56) Bromoform	10.799	173	1843	2.116	ug/l #	98	
58) 4-Methyl-2-Pentanone	8.567	43	24150	12.671	ug/l	99	
59) 2-Hexanone	9.433	43	17250	12.522	ug/l	99	
61) Tetrachloroethene	9.268	164	2884	2.795	ug/l	93	
62) Toluene	8.714	91	14175	2.554	ug/l	100	
64) Chlorobenzene	10.079	112	9013	2.621	ug/l	100	
65) 1,1,1,2-Tetrachloroethane	10.158	131	2908	2.562	ug/l	94	
66) Ethyl Benzene	10.189	91	14799	2.435	ug/l	96	
67) m/p-Xylenes	10.299	106	11298	4.990	ug/l	96	
68) o-Xylene	10.640	106	5780	2.602	ug/l	93	
69) Styrene	10.652	104	8502	2.292	ug/l	95	
70) Isopropylbenzene	10.963	105	14039	2.449	ug/l	98	
71) 1,1,2,2-Tetrachloroethane	11.207	83	5309	2.816	ug/l	95	
72) 1,2,3-Trichloropropane	11.238	75	3934m	2.537	ug/l		
73) Bromobenzene	11.195	156	3352	2.540	ug/l	98	
74) n-propylbenzene	11.298	91	15597	2.286	ug/l	98	
75) 2-Chlorotoluene	11.366	91	10726	2.601	ug/l	95	
76) 1,3,5-Trimethylbenzene	11.451	105	11235	2.376	ug/l	92	
77) t-1,4-Dichloro-2-butene	11.018	75	968	1.856	ug/l	71	
78) 4-Chlorotoluene	11.451	91	10425	2.268	ug/l	100	
79) tert-butylbenzene	11.713	119	12119	2.543	ug/l	99	
80) 1,2,4-Trimethylbenzene	11.750	105	10965	2.315	ug/l	95	
81) sec-Butylbenzene	11.890	105	13870	2.319	ug/l	100	
82) p-Isopropyltoluene	12.006	119	10894	2.248	ug/l	99	
83) 1,3-Dichlorobenzene	11.969	146	5973	2.433	ug/l	96	
84) 1,4-Dichlorobenzene	12.042	146	6130	2.532	ug/l	99	
85) n-Butylbenzene	12.335	91	9251	2.091	ug/l	96	
86) Hexachloroethane	12.530	117	2039	2.386	ug/l	91	
87) 1,2-Dichlorobenzene	12.335	146	6192	2.570	ug/l	98	
88) 1,2-Dibromo-3-Chloropr...	12.945	75	814	2.230	ug/l	93	
89) 1,2,4-Trichlorobenzene	13.591	180	3162	2.166	ug/l	97	
90) Hexachlorobutadiene	13.719	225	1379	2.316	ug/l	87	
91) Naphthalene	13.774	128	11526	2.239	ug/l	98	
92) 1,2,3-Trichlorobenzene	13.963	180	3475	2.312	ug/l	96	

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

