

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX112423\
 Data File : VX039022.D
 Acq On : 24 Nov 2023 14:23
 Operator : JC/MD
 Sample : VX1124WBS01
 Misc : 5.0mL/MSVOA_X/WATER
 ALS Vial : 12 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 VX1124WBS01

Quant Time: Nov 27 03:27:31 2023
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\624X112423W.M
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
 QLast Update : Mon Nov 27 03:22:25 2023
 Response via : Initial Calibration

Manual Integrations APPROVED

Reviewed By : John Carlone 11/27/2023
 Supervised By : Mahesh Dadoda 11/27/2023

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

Internal Standards						
1) Bromochloromethane	4.897	128	9793	30.000	ug/l	0.00
28) 1,4-Difluorobenzene	6.763	114	82609	30.000	ug/l	0.00
57) Chlorobenzene-d5	10.055	117	103206	30.000	ug/l	0.00
System Monitoring Compounds						
27) 1,2-Dichloroethane-d4	5.952	65	44317	33.079	ug/l	0.00
Spiked Amount 30.000	Range 91 - 110		Recovery = 110.267%#			
60) 4-Bromofluorobenzene	11.079	95	66093	29.320	ug/l	0.00
Spiked Amount 30.000	Range 63 - 112		Recovery = 97.733%			
63) Toluene-d8	8.647	98	123751	30.328	ug/l	0.00
Spiked Amount 30.000	Range 91 - 112		Recovery = 101.100%			
Target Compounds						Qvalue
2) Dichlorodifluoromethane	1.166	85	32331	22.057	ug/l	100
3) Chloromethane	1.294	50	37163	22.143	ug/l	93
4) Vinyl Chloride	1.374	62	37606	22.195	ug/l	100
5) Bromomethane	1.605	94	25444	24.552	ug/l	97
6) Chloroethane	1.691	64	22368	22.670	ug/l	98
7) Trichlorofluoromethane	1.892	101	50857	21.748	ug/l	96
8) Diethyl Ether	2.130	74	19078	21.253	ug/l	97
9) 1,1,2-Trichlorotrifluo...	2.331	101	28485	21.555	ug/l	100
10) 1,1-Dichloroethene	2.319	96	30043	22.554	ug/l	93
11) Methyl Iodide	2.453	142	32858	22.510	ug/l	94
12) Methyl Acetate	2.703	43	96066	23.123	ug/l	99
13) Acrolein	2.233	56	31014	85.215	ug/l	96
14) Acrylonitrile	3.062	53	114139	112.328	ug/l	98
15) Acetone	2.373	58	34003	92.060	ug/l	96
16) Carbon Disulfide	2.514	76	89261	22.125	ug/l	95
17) Allyl chloride	2.666	41	59104	22.351	ug/l	97
18) Methylene Chloride	2.788	84	34653	21.946	ug/l	98
19) trans-1,2-Dichloroethene	3.087	96	33425	22.186	ug/l	98
20) Diisopropyl ether	3.757	45	110179	21.894	ug/l	98
21) 1,1-Dichloroethane	3.611	63	62149	22.212	ug/l	99
22) cis-1,2-Dichloroethene	4.495	96	38213	21.886	ug/l	98
23) tert-Butyl Alcohol	2.946	59	62173	110.524	ug/l #	100
24) Methyl tert-Butyl Ether	3.111	73	108304	22.071	ug/l	98
25) Chloroform	5.092	83	62605	22.294	ug/l	96
26) Cyclohexane	5.470	56	55683	21.988	ug/l #	99
29) 1,1-Dichloropropene	5.696	75	46830	20.222	ug/l	98
30) 2-Butanone	4.556	43	170322	97.688	ug/l	99
31) 2,2-Dichloropropane	4.477	77	51181	19.330	ug/l	99
32) 1,1,1-Trichloroethane	5.385	97	55052	20.568	ug/l	97
33) Carbon Tetrachloride	5.678	117	45888	20.353	ug/l	99
34) Benzene	6.037	78	136268	20.200	ug/l	99
35) Methacrylonitrile	4.916	41	30889	20.000	ug/l	95
36) 1,2-Dichloroethane	6.086	62	51538	20.821	ug/l	99
37) Trichloroethene	7.129	130	34360	20.068	ug/l	99
38) Methylcyclohexane	7.379	83	57473	19.918	ug/l	96
39) 1,2-Dichloropropane	7.427	63	36397	20.458	ug/l	98
40) Dibromomethane	7.580	93	25199	20.046	ug/l	99
41) Bromodichloromethane	7.824	83	49514	20.503	ug/l	100
42) Vinyl Acetate	3.721	43	427696	102.991	ug/l	100

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43) Ethyl Acetate	4.708	43	60487	20.165	ug/l	100
44) Isopropyl Acetate	6.336	43	97784	20.679	ug/l	98
45) 1,4-Dioxane	7.653	88	20803	430.950	ug/l	97
46) Methyl methacrylate	7.690	41	54741	20.248	ug/l	95
47) n-amyl Acetate	10.841	43	79053	19.752	ug/l	100
48) t-1,3-Dichloropropene	8.976	75	54816	19.576	ug/l	98
49) cis-1,3-Dichloropropene	8.366	75	59202	20.495	ug/l	99
50) 1,1,2-Trichloroethane	9.153	97	34804	20.382	ug/l	96
51) Ethyl methacrylate	9.116	69	43843	20.511	ug/l	95
52) 1,3-Dichloropropane	9.305	76	59767	20.412	ug/l	98
53) Dibromochloromethane	9.518	129	36976	20.163	ug/l	99
54) 1,2-Dibromoethane	9.610	107	37955	20.268	ug/l	100
55) 2-Chloroethyl vinyl ether	8.238	63	114043	84.173	ug/l	99
56) Bromoform	10.799	173	25464	19.239	ug/l	97
58) 4-Methyl-2-Pentanone	8.574	43	324085	103.552	ug/l	99
59) 2-Hexanone	9.427	43	257049	100.059	ug/l	100
61) Tetrachloroethene	9.275	164	27575	20.550	ug/l	96
62) Toluene	8.720	91	151954	20.738	ug/l	99
64) Chlorobenzene	10.079	112	90421	20.287	ug/l	97
65) 1,1,1,2-Tetrachloroethane	10.159	131	32839	20.458	ug/l	99
66) Ethyl Benzene	10.195	91	169260	20.286	ug/l	98
67) m/p-Xylenes	10.299	106	126883	41.154	ug/l	98
68) o-Xylene	10.640	106	60208	20.160	ug/l	100
69) Styrene	10.652	104	87361	19.765	ug/l	99
70) Isopropylbenzene	10.963	105	162100	20.287	ug/l	100
71) 1,1,2,2-Tetrachloroethane	11.207	83	60302	20.216	ug/l	99
72) 1,2,3-Trichloropropane	11.238	75	50940m	20.181	ug/l	
73) Bromobenzene	11.195	156	36936	20.303	ug/l	99
74) n-propylbenzene	11.305	91	200627	20.493	ug/l	100
75) 2-Chlorotoluene	11.366	91	115658	20.137	ug/l	100
76) 1,3,5-Trimethylbenzene	11.451	105	138662	20.143	ug/l	99
77) t-1,4-Dichloro-2-butene	11.018	75	18340	18.337	ug/l	96
78) 4-Chlorotoluene	11.457	91	137622	20.380	ug/l	99
79) tert-butylbenzene	11.713	119	132994	20.318	ug/l	99
80) 1,2,4-Trimethylbenzene	11.750	105	138855	20.155	ug/l	99
81) sec-Butylbenzene	11.890	105	168154	20.321	ug/l	98
82) p-Isopropyltoluene	12.006	119	141289	20.146	ug/l	99
83) 1,3-Dichlorobenzene	11.969	146	70221	20.170	ug/l	98
84) 1,4-Dichlorobenzene	12.042	146	70580	19.758	ug/l	99
85) n-Butylbenzene	12.329	91	137141	19.802	ug/l	99
86) Hexachloroethane	12.536	117	25435	19.141	ug/l	100
87) 1,2-Dichlorobenzene	12.335	146	67108	20.045	ug/l	99
88) 1,2-Dibromo-3-Chloropr...	12.939	75	15419	20.211	ug/l	99
89) 1,2,4-Trichlorobenzene	13.585	180	44727	20.151	ug/l	99
90) Hexachlorobutadiene	13.725	225	15288	19.290	ug/l	98
91) Naphthalene	13.774	128	163385	19.959	ug/l	100
92) 1,2,3-Trichlorobenzene	13.963	180	43021	20.010	ug/l	98

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

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