

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN111023\
 Data File : VN080045.D
 Acq On : 10 Nov 2023 11:35
 Operator : JC\MD
 Sample : VN1110WBSD01
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 5 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 VN1110WBSD01

Manual Integrations
 APPROVED

Reviewed By : John Carlone 11/13/2023
 Supervised By : Mahesh Dadoda 11/13/2023

Quant Time: Nov 10 23:55:18 2023
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\624N110823W.M
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
 QLast Update : Thu Nov 09 04:02:05 2023
 Response via : Initial Calibration

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

Internal Standards						
1) Bromochloromethane	7.812	128	73199	30.000	ug/l	-0.01
28) 1,4-Difluorobenzene	9.106	114	372451	30.000	ug/l	0.00
57) Chlorobenzene-d5	11.871	117	370067	30.000	ug/l	0.00
System Monitoring Compounds						
27) 1,2-Dichloroethane-d4	8.583	65	180558	29.385	ug/l	0.00
Spiked Amount 30.000	Range	91 - 110	Recovery	=	97.967%	
60) 4-Bromofluorobenzene	12.853	95	159972	27.032	ug/l	0.00
Spiked Amount 30.000	Range	63 - 112	Recovery	=	90.100%	
63) Toluene-d8	10.571	98	499515	28.488	ug/l	0.00
Spiked Amount 30.000	Range	91 - 112	Recovery	=	94.967%	
Target Compounds						
					Qvalue	
2) Dichlorodifluoromethane	2.124	85	87394	18.311	ug/l	96
3) Chloromethane	2.359	50	105489	17.545	ug/l	99
4) Vinyl Chloride	2.512	62	89588	17.831	ug/l	99
5) Bromomethane	2.959	94	50536	18.370	ug/l	94
6) Chloroethane	3.118	64	55481	19.011	ug/l	100
7) Trichlorofluoromethane	3.495	101	139835	18.545	ug/l	100
8) Diethyl Ether	3.959	74	49164	18.162	ug/l	99
9) 1,1,2-Trichlorotrifluo...	4.377	101	80534	18.904	ug/l	96
10) 1,1-Dichloroethene	4.342	96	74144	19.673	ug/l	94
11) Methyl Iodide	4.595	142	87138	17.481	ug/l	97
12) Methyl Acetate	5.024	43	180164	18.439	ug/l	100
13) Acrolein	4.183	56	70326	85.190	ug/l	98
14) Acrylonitrile	5.718	53	207191	89.278	ug/l	98
15) Acetone	4.424	58	61373	78.319	ug/l	82
16) Carbon Disulfide	4.718	76	222607	17.298	ug/l	97
17) Allyl chloride	5.030	41	111045	16.862	ug/l	97
18) Methylene Chloride	5.277	84	94591	18.716	ug/l	97
19) trans-1,2-Dichloroethene	5.789	96	85564	18.316	ug/l	94
20) Diisopropyl ether	6.677	45	283272	18.407	ug/l	98
21) 1,1-Dichloroethane	6.565	63	170276	18.536	ug/l	99
22) cis-1,2-Dichloroethene	7.494	96	97862	18.053	ug/l	98
23) tert-Butyl Alcohol	5.518	59	56301m	89.878	ug/l	
24) Methyl tert-Butyl Ether	5.794	73	247642	17.846	ug/l	98
25) Chloroform	7.971	83	176024	18.563	ug/l	92
26) Cyclohexane	8.259	56	123327	17.066	ug/l #	99
29) 1,1-Dichloropropene	8.377	75	125340	19.608	ug/l	98
30) 2-Butanone	7.483	43	275201	90.148	ug/l	99
31) 2,2-Dichloropropane	7.494	77	137684	19.929	ug/l	99
32) 1,1,1-Trichloroethane	8.171	97	148584	20.361	ug/l	99
33) Carbon Tetrachloride	8.365	117	129223	20.147	ug/l	98
34) Benzene	8.606	78	377630	19.887	ug/l	99
35) Methacrylonitrile	7.783	41	59957	18.733	ug/l	97
36) 1,2-Dichloroethane	8.671	62	140626	20.463	ug/l	100
37) Trichloroethene	9.353	130	89746	19.653	ug/l	96
38) Methylcyclohexane	9.606	83	109780	18.290	ug/l	99
39) 1,2-Dichloropropane	9.624	63	98546	19.607	ug/l	99
40) Dibromomethane	9.712	93	67065	20.643	ug/l	97
41) Bromodichloromethane	9.894	83	137934	20.500	ug/l	94
42) Vinyl Acetate	6.606	43	713075	94.039	ug/l	99

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Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
43) Ethyl Acetate	7.559	43	115951	20.219	ug/l	97
44) Isopropyl Acetate	8.688	43	179384	19.197	ug/l	96
45) 1,4-Dioxane	9.694	88	28725	398.893	ug/l	95
46) Methyl methacrylate	9.688	41	86496	19.256	ug/l	93
47) n-amyl Acetate	12.500	43	122222	16.284	ug/l	93
48) t-1,3-Dichloropropene	10.841	75	132442	19.273	ug/l	90
49) cis-1,3-Dichloropropene	10.312	75	152670	20.097	ug/l	90
50) 1,1,2-Trichloroethane	11.024	97	96817	21.847	ug/l	95
51) Ethyl methacrylate	10.877	69	121329	19.048	ug/l	95
52) 1,3-Dichloropropane	11.165	76	178886	22.578	ug/l	100
53) Dibromochloromethane	11.359	129	94758	19.987	ug/l	99
54) 1,2-Dibromoethane	11.471	107	78789	17.705	ug/l	98
55) 2-Chloroethyl vinyl ether	10.165	63	283612	96.808	ug/l	98
56) Bromoform	12.582	173	59403	19.121	ug/l	99
58) 4-Methyl-2-Pentanone	10.447	43	557414	90.159	ug/l	98
59) 2-Hexanone	11.200	43	435170	92.399	ug/l	95
61) Tetrachloroethene	11.106	164	87451	20.156	ug/l	94
62) Toluene	10.635	91	395776	18.491	ug/l	99
64) Chlorobenzene	11.894	112	234320	18.345	ug/l	94
65) 1,1,1,2-Tetrachloroethane	11.965	131	100865	21.527	ug/l	94
66) Ethyl Benzene	11.965	91	445228	19.795	ug/l	99
67) m/p-Xylenes	12.076	106	275823	32.940	ug/l	94
68) o-Xylene	12.400	106	132960	16.566	ug/l	97
69) Styrene	12.418	104	223561	16.826	ug/l	98
70) Isopropylbenzene	12.700	105	337685	16.867	ug/l	98
71) 1,1,2,2-Tetrachloroethane	12.941	83	113119	16.589	ug/l	98
72) 1,2,3-Trichloropropane	13.000	75	105723m	16.687	ug/l	
73) Bromobenzene	12.982	156	87233	17.724	ug/l	99
74) n-propylbenzene	13.041	91	403156	16.833	ug/l	99
75) 2-Chlorotoluene	13.129	91	261060	17.149	ug/l	99
76) 1,3,5-Trimethylbenzene	13.176	105	298338	18.017	ug/l	99
77) t-1,4-Dichloro-2-butene	12.741	75	32580	15.704	ug/l	96
78) 4-Chlorotoluene	13.223	91	269625	17.833	ug/l	98
79) tert-butylbenzene	13.441	119	226786	17.488	ug/l	99
80) 1,2,4-Trimethylbenzene	13.488	105	298345	18.374	ug/l	99
81) sec-Butylbenzene	13.618	105	336594	18.388	ug/l	98
82) p-Isopropyltoluene	13.735	119	300069	20.184	ug/l	99
83) 1,3-Dichlorobenzene	13.735	146	185640	20.699	ug/l	99
84) 1,4-Dichlorobenzene	13.817	146	182837	20.770	ug/l	98
85) n-Butylbenzene	14.059	91	210843	16.957	ug/l	97
86) Hexachloroethane	14.335	117	52100	18.022	ug/l	96
87) 1,2-Dichlorobenzene	14.112	146	158740	18.527	ug/l	99
88) 1,2-Dibromo-3-Chloropr...	14.723	75	21995	17.639	ug/l	97
89) 1,2,4-Trichlorobenzene	15.841	180	67838	17.090	ug/l	97
90) Hexachlorobutadiene	15.506	225	34473	17.622	ug/l	99
91) Naphthalene	15.647	128	193383	15.181	ug/l	100
92) 1,2,3-Trichlorobenzene	15.841	180	67838	17.090	ug/l	97

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

