

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN050724\
 Data File : VN082017.D
 Acq On : 07 May 2024 10:40
 Operator : JC\MD
 Sample : VN0507WBSD01
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 4 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 VN0507WBSD01

Manual Integrations
 APPROVED

Reviewed By : John Carlone 05/08/2024
 Supervised By : Mahesh Dadoda 05/08/2024

Quant Time: May 08 07:57:32 2024
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\624N042624W.M
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
 QLast Update : Sat Apr 27 04:37:27 2024
 Response via : Initial Calibration

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

Internal Standards						
1) Bromochloromethane	7.818	128	30872	30.000	ug/l	0.00
28) 1,4-Difluorobenzene	9.100	114	181038	30.000	ug/l	0.00
57) Chlorobenzene-d5	11.865	117	162438	30.000	ug/l	0.00
System Monitoring Compounds						
27) 1,2-Dichloroethane-d4	8.583	65	80625	31.193	ug/l	0.00
Spiked Amount 30.000	Range 91 - 110		Recovery = 103.967%			
60) 4-Bromofluorobenzene	12.847	95	81940	30.311	ug/l	0.00
Spiked Amount 30.000	Range 63 - 112		Recovery = 101.033%			
63) Toluene-d8	10.565	98	237556	30.795	ug/l	0.00
Spiked Amount 30.000	Range 91 - 112		Recovery = 102.633%			
Target Compounds						
					Qvalue	
2) Dichlorodifluoromethane	2.124	85	33159	18.922	ug/l	95
3) Chloromethane	2.365	50	40486	19.921	ug/l	96
4) Vinyl Chloride	2.518	62	38635	20.124	ug/l	100
5) Bromomethane	2.965	94	18035	18.002	ug/l	89
6) Chloroethane	3.124	64	24670	22.692	ug/l	89
7) Trichlorofluoromethane	3.501	101	52006	18.512	ug/l	97
8) Diethyl Ether	3.965	74	25878	19.029	ug/l	74
9) 1,1,2-Trichlorotrifluo...	4.383	101	35501	18.433	ug/l	68
10) 1,1-Dichloroethene	4.342	96	35940m	19.075	ug/l	
11) Methyl Iodide	4.601	142	29059m	16.876	ug/l	
12) Methyl Acetate	5.024	43	54316	23.022	ug/l #	74
13) Acrolein	4.177	56	44360	88.468	ug/l	98
14) Acrylonitrile	5.718	53	112265	104.261	ug/l	98
15) Acetone	4.424	58	26490m	109.787	ug/l	
16) Carbon Disulfide	4.712	76	92916	17.800	ug/l	98
17) Allyl chloride	5.024	41	64235	19.418	ug/l	87
18) Methylene Chloride	5.277	84	41578	19.394	ug/l #	82
19) trans-1,2-Dichloroethene	5.789	96	36400	18.560	ug/l	87
20) Diisopropyl ether	6.665	45	153187	20.930	ug/l #	95
21) 1,1-Dichloroethane	6.571	63	79523	20.519	ug/l	96
22) cis-1,2-Dichloroethene	7.489	96	45551	19.059	ug/l	89
23) tert-Butyl Alcohol	5.524	59	42191m	95.126	ug/l	
24) Methyl tert-Butyl Ether	5.800	73	138232	20.349	ug/l #	87
25) Chloroform	7.965	83	73252	19.647	ug/l	98
26) Cyclohexane	8.259	56	67585	20.167	ug/l #	83
29) 1,1-Dichloropropene	8.371	75	52392	19.439	ug/l	96
30) 2-Butanone	7.483	43	144611	104.089	ug/l	96
31) 2,2-Dichloropropane	7.489	77	63481	22.984	ug/l	97
32) 1,1,1-Trichloroethane	8.165	97	61794	19.935	ug/l	94
33) Carbon Tetrachloride	8.359	117	46820m	18.612	ug/l	
34) Benzene	8.606	78	175046	20.358	ug/l	94
35) Methacrylonitrile	7.783	41	35764	20.347	ug/l	90
36) 1,2-Dichloroethane	8.671	62	59775	20.709	ug/l #	90
37) Trichloroethene	9.353	130	36095	17.139	ug/l	92
38) Methylcyclohexane	9.600	83	63281	19.436	ug/l	93
39) 1,2-Dichloropropane	9.624	63	47009	21.307	ug/l	96
40) Dibromomethane	9.712	93	28374	20.019	ug/l	88
41) Bromodichloromethane	9.888	83	61150	20.186	ug/l #	96
42) Vinyl Acetate	6.600	43	614452	103.909	ug/l	95

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Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
43) Ethyl Acetate	7.565	43	59842	19.755	ug/l	99
44) Isopropyl Acetate	8.688	43	107592	20.007	ug/l	91
45) 1,4-Dioxane	9.694	88	18478	428.450	ug/l #	95
46) Methyl methacrylate	9.683	41	51175	20.829	ug/l	86
47) n-amyl Acetate	12.494	43	96487m	19.893	ug/l	
48) t-1,3-Dichloropropene	10.841	75	65952	20.076	ug/l	94
49) cis-1,3-Dichloropropene	10.312	75	73812	21.251	ug/l #	81
50) 1,1,2-Trichloroethane	11.024	97	42744	22.229	ug/l	92
51) Ethyl methacrylate	10.877	69	72928	20.095	ug/l	76
52) 1,3-Dichloropropane	11.165	76	74266	21.022	ug/l	99
53) Dibromochloromethane	11.359	129	40037	19.137	ug/l	99
54) 1,2-Dibromoethane	11.471	107	37866	19.745	ug/l	90
55) 2-Chloroethyl vinyl ether	10.159	63	192264	105.943	ug/l	95
56) Bromoform	12.582	173	22816	17.919	ug/l #	75
58) 4-Methyl-2-Pentanone	10.447	43	323114	102.444	ug/l #	87
59) 2-Hexanone	11.194	43	235614	100.752	ug/l	87
61) Tetrachloroethene	11.100	164	30481	16.911	ug/l	90
62) Toluene	10.630	91	176380	19.298	ug/l	99
64) Chlorobenzene	11.894	112	110403	19.749	ug/l	97
65) 1,1,1,2-Tetrachloroethane	11.965	131	37213	20.339	ug/l	91
66) Ethyl Benzene	11.965	91	194952	19.460	ug/l	99
67) m/p-Xylenes	12.071	106	150507	40.520	ug/l	94
68) o-Xylene	12.400	106	73956	20.124	ug/l	97
69) Styrene	12.412	104	122436	19.847	ug/l	98
70) Isopropylbenzene	12.694	105	180605	19.350	ug/l	100
71) 1,1,2,2-Tetrachloroethane	12.941	83	56717	21.116	ug/l	97
72) 1,2,3-Trichloropropane	12.994	75	50374m	20.061	ug/l	
73) Bromobenzene	12.982	156	37252	18.645	ug/l	78
74) n-propylbenzene	13.035	91	220770	20.049	ug/l	99
75) 2-Chlorotoluene	13.124	91	132127	19.396	ug/l	99
76) 1,3,5-Trimethylbenzene	13.176	105	143124	18.945	ug/l	99
77) t-1,4-Dichloro-2-butene	12.741	75	21187	18.957	ug/l	90
78) 4-Chlorotoluene	13.224	91	128465	19.249	ug/l	100
79) tert-butylbenzene	13.441	119	121564	18.689	ug/l	98
80) 1,2,4-Trimethylbenzene	13.482	105	148445	19.562	ug/l	97
81) sec-Butylbenzene	13.618	105	179933	19.734	ug/l	98
82) p-Isopropyltoluene	13.729	119	143460	19.897	ug/l	99
83) 1,3-Dichlorobenzene	13.735	146	66946	18.609	ug/l	98
84) 1,4-Dichlorobenzene	13.812	146	68755	19.014	ug/l	100
85) n-Butylbenzene	14.059	91	130323	19.788	ug/l	96
86) Hexachloroethane	14.329	117	26097	18.153	ug/l	77
87) 1,2-Dichlorobenzene	14.112	146	69067	19.276	ug/l	99
88) 1,2-Dibromo-3-Chloropr...	14.718	75	11969	19.858	ug/l #	80
89) 1,2,4-Trichlorobenzene	15.847	180	32928	16.690	ug/l	95
90) Hexachlorobutadiene	15.506	225	12661	17.327	ug/l	96
91) Naphthalene	15.641	128	137064	18.275	ug/l	98
92) 1,2,3-Trichlorobenzene	15.847	180	32928	16.690	ug/l	95

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

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