

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN041024\
 Data File : VN081685.D
 Acq On : 10 Apr 2024 16:43
 Operator : JC\MD
 Sample : VSTDICV020
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 9 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 ICVVN041024

Manual Integrations
 APPROVED

Reviewed By : John Carlone 04/11/2024
 Supervised By : Mahesh Dadoda 04/11/2024

Quant Time: Apr 11 09:26:52 2024
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\624N041024W.M
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
 QLast Update : Thu Apr 11 09:25:01 2024
 Response via : Initial Calibration

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

Internal Standards						
1) Bromochloromethane	7.812	128	30801	30.000	ug/l	-0.01
28) 1,4-Difluorobenzene	9.100	114	235533	30.000	ug/l	0.00
57) Chlorobenzene-d5	11.870	117	285363	30.000	ug/l	0.00
System Monitoring Compounds						
27) 1,2-Dichloroethane-d4	8.576	65	113575	30.015	ug/l	0.00
Spiked Amount 30.000	Range 91 - 110		Recovery = 100.067%			
60) 4-Bromofluorobenzene	12.853	95	170911	30.463	ug/l	0.00
Spiked Amount 30.000	Range 63 - 112		Recovery = 101.533%			
63) Toluene-d8	10.570	98	342536	29.925	ug/l	0.00
Spiked Amount 30.000	Range 91 - 112		Recovery = 99.733%			
Target Compounds						Qvalue
2) Dichlorodifluoromethane	2.124	85	87796	20.400	ug/l	97
3) Chloromethane	2.359	50	86594	23.191	ug/l	97
4) Vinyl Chloride	2.518	62	76702	19.977	ug/l	95
5) Bromomethane	2.965	94	66948	20.588	ug/l	96
6) Chloroethane	3.124	64	50205	16.706	ug/l	95
7) Trichlorofluoromethane	3.500	101	156089	24.761	ug/l	94
8) Diethyl Ether	3.953	74	49021	20.850	ug/l	98
9) 1,1,2-Trichlorotrifluo...	4.365	101	90152m	20.845	ug/l	
10) 1,1-Dichloroethene	4.341	96	82449	20.787	ug/l	99
11) Methyl Iodide	4.594	142	83200	18.523	ug/l	86
12) Methyl Acetate	5.024	43	71581	19.654	ug/l #	88
13) Acrolein	4.177	56	44659	93.105	ug/l	100
14) Acrylonitrile	5.718	53	180241	99.421	ug/l	98
15) Acetone	4.430	58	40316	101.111	ug/l	99
16) Carbon Disulfide	4.718	76	230807	20.465	ug/l	98
17) Allyl chloride	5.024	41	98518	20.533	ug/l	90
18) Methylene Chloride	5.283	84	91424m	20.018	ug/l	
19) trans-1,2-Dichloroethene	5.794	96	90477	20.802	ug/l	86
20) Diisopropyl ether	6.671	45	242215	21.204	ug/l	91
21) 1,1-Dichloroethane	6.571	63	156658	20.569	ug/l	98
22) cis-1,2-Dichloroethene	7.488	96	106836	20.341	ug/l	94
23) tert-Butyl Alcohol	5.506	59	70007	108.780	ug/l #	100
24) Methyl tert-Butyl Ether	5.794	73	259836	20.946	ug/l	97
25) Chloroform	7.965	83	176767	20.399	ug/l	100
26) Cyclohexane	8.259	56	128767	21.090	ug/l #	83
29) 1,1-Dichloropropene	8.371	75	118684	19.167	ug/l	98
30) 2-Butanone	7.482	43	223659	94.576	ug/l	99
31) 2,2-Dichloropropane	7.494	77	149505	19.384	ug/l	99
32) 1,1,1-Trichloroethane	8.171	97	168315	19.722	ug/l	98
33) Carbon Tetrachloride	8.365	117	141577	18.302	ug/l	97
34) Benzene	8.606	78	374751	18.787	ug/l	98
35) Methacrylonitrile	7.782	41	48133	17.969	ug/l	92
36) 1,2-Dichloroethane	8.671	62	126976	19.407	ug/l	97
37) Trichloroethene	9.353	130	98371	18.636	ug/l	89
38) Methylcyclohexane	9.606	83	144003	19.027	ug/l	93
39) 1,2-Dichloropropane	9.623	63	86747	18.641	ug/l	93
40) Dibromomethane	9.706	93	68415	18.456	ug/l	97
41) Bromodichloromethane	9.888	83	140049	18.527	ug/l	93
42) Vinyl Acetate	6.606	43	930758	94.479	ug/l	98

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Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
43) Ethyl Acetate	7.559	43	95806	18.382	ug/l	98
44) Isopropyl Acetate	8.688	43	162685	18.629	ug/l	98
45) 1,4-Dioxane	9.694	88	37987	394.051	ug/l	95
46) Methyl methacrylate	9.682	41	73328	18.672	ug/l	89
47) n-amyl Acetate	12.494	43	140708	17.956	ug/l	100
48) t-1,3-Dichloropropene	10.841	75	135532	18.819	ug/l	93
49) cis-1,3-Dichloropropene	10.318	75	142141	18.328	ug/l	98
50) 1,1,2-Trichloroethane	11.018	97	92726	18.681	ug/l	97
51) Ethyl methacrylate	10.876	69	125488	18.157	ug/l	94
52) 1,3-Dichloropropane	11.165	76	152172	18.704	ug/l	100
53) Dibromochloromethane	11.359	129	110435	18.626	ug/l	98
54) 1,2-Dibromoethane	11.470	107	96082	18.727	ug/l	98
55) 2-Chloroethyl vinyl ether	10.165	63	337155	99.341	ug/l	98
56) Bromoform	12.582	173	68526	18.074	ug/l #	97
58) 4-Methyl-2-Pentanone	10.447	43	494541	100.774	ug/l	94
59) 2-Hexanone	11.200	43	365648	99.213	ug/l	94
61) Tetrachloroethene	11.106	164	106220	20.088	ug/l	94
62) Toluene	10.629	91	424266	20.436	ug/l	98
64) Chlorobenzene	11.894	112	270940	20.581	ug/l	98
65) 1,1,1,2-Tetrachloroethane	11.965	131	97746	20.440	ug/l	98
66) Ethyl Benzene	11.965	91	455240	20.624	ug/l	100
67) m/p-Xylenes	12.070	106	360395	41.219	ug/l	96
68) o-Xylene	12.400	106	175297	21.119	ug/l	90
69) Styrene	12.412	104	282184	19.962	ug/l	97
70) Isopropylbenzene	12.700	105	440538	20.573	ug/l	96
71) 1,1,2,2-Tetrachloroethane	12.941	83	110755	19.800	ug/l	96
72) 1,2,3-Trichloropropane	12.994	75	94155m	18.181	ug/l	
73) Bromobenzene	12.982	156	106186	20.012	ug/l	92
74) n-propylbenzene	13.035	91	529335	20.651	ug/l	97
75) 2-Chlorotoluene	13.129	91	313812	20.550	ug/l	94
76) 1,3,5-Trimethylbenzene	13.176	105	377889	20.792	ug/l	98
77) t-1,4-Dichloro-2-butene	12.735	75	43532	20.298	ug/l	94
78) 4-Chlorotoluene	13.223	91	318835	21.051	ug/l	94
79) tert-butylbenzene	13.441	119	317014	20.502	ug/l	98
80) 1,2,4-Trimethylbenzene	13.482	105	375541	20.719	ug/l	96
81) sec-Butylbenzene	13.617	105	459764	20.618	ug/l	99
82) p-Isopropyltoluene	13.735	119	382010	20.426	ug/l	98
83) 1,3-Dichlorobenzene	13.735	146	202033	20.374	ug/l	97
84) 1,4-Dichlorobenzene	13.811	146	200547	20.892	ug/l	98
85) n-Butylbenzene	14.059	91	321044	20.380	ug/l	98
86) Hexachloroethane	14.335	117	73294	20.514	ug/l	86
87) 1,2-Dichlorobenzene	14.106	146	195663	20.729	ug/l	98
88) 1,2-Dibromo-3-Chloropr...	14.717	75	24092	19.757	ug/l	93
89) 1,2,4-Trichlorobenzene	15.847	180	106811	20.645	ug/l	97
90) Hexachlorobutadiene	15.500	225	42926	20.705	ug/l	99
91) Naphthalene	15.647	128	326068	19.604	ug/l	100
92) 1,2,3-Trichlorobenzene	15.847	180	106811	20.645	ug/l	97

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

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