

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN041124\
 Data File : VN081694.D
 Acq On : 11 Apr 2024 13:04
 Operator : JC\MD
 Sample : VN0411WBS01
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 3 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 VN0411WBS01

Manual Integrations
 APPROVED

Reviewed By : John Carlone 04/12/2024
 Supervised By : Mahesh Dadoda 04/12/2024

Quant Time: Apr 12 06:00:00 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	27030	30.000	ug/l	-0.01
28) 1,4-Difluorobenzene	9.106	114	194826	30.000	ug/l	0.00
57) Chlorobenzene-d5	11.865	117	258814	30.000	ug/l	0.00
System Monitoring Compounds						
27) 1,2-Dichloroethane-d4	8.576	65	106375	32.035	ug/l	0.00
Spiked Amount 30.000	Range 91 - 110		Recovery = 106.767%			
60) 4-Bromofluorobenzene	12.853	95	157887	31.029	ug/l	0.00
Spiked Amount 30.000	Range 63 - 112		Recovery = 103.433%			
63) Toluene-d8	10.570	98	316071	30.445	ug/l	0.00
Spiked Amount 30.000	Range 91 - 112		Recovery = 101.500%			
Target Compounds						
					Qvalue	
2) Dichlorodifluoromethane	2.124	85	76829	20.342	ug/l	97
3) Chloromethane	2.359	50	86007	26.247	ug/l	100
4) Vinyl Chloride	2.518	62	71019	21.077	ug/l	99
5) Bromomethane	2.959	94	48800	17.101	ug/l	93
6) Chloroethane	3.124	64	44953	17.045	ug/l	95
7) Trichlorofluoromethane	3.506	101	51463	9.303	ug/l	95
8) Diethyl Ether	3.959	74	40367	19.564	ug/l	99
9) 1,1,2-Trichlorotrifluo...	4.371	101	77576	20.440	ug/l	89
10) 1,1-Dichloroethene	4.341	96	68747	19.751	ug/l	95
11) Methyl Iodide	4.588	142	77988	19.785	ug/l	91
12) Methyl Acetate	5.018	43	65420	20.468	ug/l #	85
13) Acrolein	4.183	56	44952	106.790	ug/l	100
14) Acrylonitrile	5.718	53	169156	106.324	ug/l	97
15) Acetone	4.424	58	38609	110.339	ug/l	88
16) Carbon Disulfide	4.712	76	199362	20.143	ug/l	96
17) Allyl chloride	5.024	41	82009	19.477	ug/l	93
18) Methylene Chloride	5.277	84	81368	20.302	ug/l	95
19) trans-1,2-Dichloroethene	5.783	96	75189	19.698	ug/l	94
20) Diisopropyl ether	6.671	45	204360	20.386	ug/l	93
21) 1,1-Dichloroethane	6.571	63	139227	20.831	ug/l	98
22) cis-1,2-Dichloroethene	7.482	96	90669	19.671	ug/l	97
23) tert-Butyl Alcohol	5.524	59	58452m	103.496	ug/l	
24) Methyl tert-Butyl Ether	5.794	73	222635	20.451	ug/l	96
25) Chloroform	7.971	83	160948	21.164	ug/l	92
26) Cyclohexane	8.259	56	108766	20.299	ug/l #	89
29) 1,1-Dichloropropene	8.376	75	106821	20.855	ug/l	98
30) 2-Butanone	7.488	43	206927	105.784	ug/l	97
31) 2,2-Dichloropropane	7.494	77	127803	20.032	ug/l	96
32) 1,1,1-Trichloroethane	8.171	97	143884	20.382	ug/l	99
33) Carbon Tetrachloride	8.359	117	129116	20.178	ug/l	94
34) Benzene	8.606	78	335493	20.333	ug/l	96
35) Methacrylonitrile	7.782	41	45639m	20.598	ug/l	
36) 1,2-Dichloroethane	8.676	62	112714	20.827	ug/l	98
37) Trichloroethene	9.353	130	87051	19.937	ug/l	96
38) Methylcyclohexane	9.600	83	117508	18.770	ug/l	96
39) 1,2-Dichloropropane	9.623	63	79707	20.707	ug/l	96
40) Dibromomethane	9.706	93	65262	21.284	ug/l	92
41) Bromodichloromethane	9.888	83	129028	20.635	ug/l	99
42) Vinyl Acetate	6.606	43	815542	100.080	ug/l	98

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Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
43) Ethyl Acetate	7.553	43	86799	20.134	ug/l	99
44) Isopropyl Acetate	8.688	43	152204	21.071	ug/l	93
45) 1,4-Dioxane	9.694	88	36830	461.875	ug/l	94
46) Methyl methacrylate	9.682	41	66983	20.620	ug/l	91
47) n-amyl Acetate	12.494	43	131684	20.316	ug/l	99
48) t-1,3-Dichloropropene	10.841	75	117912	19.794	ug/l	91
49) cis-1,3-Dichloropropene	10.318	75	130048	20.272	ug/l	96
50) 1,1,2-Trichloroethane	11.018	97	83314	20.292	ug/l	94
51) Ethyl methacrylate	10.876	69	110968	19.411	ug/l	95
52) 1,3-Dichloropropane	11.165	76	137489	20.430	ug/l	100
53) Dibromochloromethane	11.359	129	99602	20.308	ug/l	100
54) 1,2-Dibromoethane	11.476	107	84231	19.848	ug/l	98
55) 2-Chloroethyl vinyl ether	10.165	63	283766	101.080	ug/l	98
56) Bromoform	12.582	173	65067	20.748	ug/l #	94
58) 4-Methyl-2-Pentanone	10.447	43	484614	108.882	ug/l	94
59) 2-Hexanone	11.200	43	367753	110.020	ug/l	92
61) Tetrachloroethene	11.106	164	94931	19.795	ug/l	96
62) Toluene	10.629	91	379629	20.162	ug/l	97
64) Chlorobenzene	11.894	112	234516	19.642	ug/l	98
65) 1,1,1,2-Tetrachloroethane	11.964	131	84238	19.423	ug/l	95
66) Ethyl Benzene	11.964	91	386721	19.317	ug/l	98
67) m/p-Xylenes	12.076	106	322898	40.719	ug/l	95
68) o-Xylene	12.400	106	150069	19.935	ug/l	95
69) Styrene	12.412	104	253035	19.736	ug/l	97
70) Isopropylbenzene	12.700	105	388548	20.006	ug/l	98
71) 1,1,2,2-Tetrachloroethane	12.941	83	109132	21.511	ug/l	100
72) 1,2,3-Trichloropropane	12.994	75	89544m	19.065	ug/l	
73) Bromobenzene	12.982	156	97812	20.325	ug/l	95
74) n-propylbenzene	13.041	91	466471	20.066	ug/l	97
75) 2-Chlorotoluene	13.129	91	282630	20.407	ug/l	94
76) 1,3,5-Trimethylbenzene	13.176	105	334799	20.310	ug/l	98
77) t-1,4-Dichloro-2-butene	12.741	75	40944	21.050	ug/l	89
78) 4-Chlorotoluene	13.223	91	287722	20.945	ug/l	92
79) tert-butylbenzene	13.441	119	278154	19.834	ug/l	98
80) 1,2,4-Trimethylbenzene	13.482	105	346704	21.090	ug/l	99
81) sec-Butylbenzene	13.617	105	414887	20.514	ug/l	100
82) p-Isopropyltoluene	13.729	119	342662	20.202	ug/l	98
83) 1,3-Dichlorobenzene	13.735	146	193836	21.552	ug/l	97
84) 1,4-Dichlorobenzene	13.817	146	184726	21.218	ug/l	98
85) n-Butylbenzene	14.058	91	288708	20.207	ug/l	97
86) Hexachloroethane	14.335	117	67549	20.845	ug/l	89
87) 1,2-Dichlorobenzene	14.111	146	183690	21.457	ug/l	95
88) 1,2-Dibromo-3-Chloropr...	14.723	75	23298	21.066	ug/l	94
89) 1,2,4-Trichlorobenzene	15.841	180	96819	20.634	ug/l	99
90) Hexachlorobutadiene	15.505	225	37297	19.835	ug/l	93
91) Naphthalene	15.647	128	295398	19.581	ug/l	99
92) 1,2,3-Trichlorobenzene	15.841	180	96819	20.634	ug/l	99

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

