

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN041024\
 Data File : VN081687.D
 Acq On : 10 Apr 2024 17:41
 Operator : JC\MD
 Sample : VN0410WBS02
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 11 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 VN0410WBS02

Manual Integrations
 APPROVED

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

Quant Time: Apr 11 09:27:37 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	7.818	128	28699	30.000	ug/l	0.00
28) 1,4-Difluorobenzene	9.106	114	216120	30.000	ug/l	0.00
57) Chlorobenzene-d5	11.865	117	273773	30.000	ug/l	0.00
System Monitoring Compounds						
27) 1,2-Dichloroethane-d4	8.582	65	107912	30.608	ug/l	0.00
Spiked Amount 30.000	Range 91 - 110		Recovery = 102.033%			
60) 4-Bromofluorobenzene	12.853	95	158650	29.475	ug/l	0.00
Spiked Amount 30.000	Range 63 - 112		Recovery = 98.267%			
63) Toluene-d8	10.571	98	329014	29.960	ug/l	0.00
Spiked Amount 30.000	Range 91 - 112		Recovery = 99.867%			
Target Compounds						
					Qvalue	
2) Dichlorodifluoromethane	2.124	85	80757	20.139	ug/l	99
3) Chloromethane	2.365	50	80410	23.112	ug/l	98
4) Vinyl Chloride	2.518	62	69733	19.492	ug/l	98
5) Bromomethane	2.959	94	58303	19.243	ug/l	99
6) Chloroethane	3.124	64	56203	20.072	ug/l	95
7) Trichlorofluoromethane	3.500	101	143318	24.401	ug/l	99
8) Diethyl Ether	3.959	74	43303	19.767	ug/l	95
9) 1,1,2-Trichlorotrifluo...	4.377	101	83074	20.616	ug/l	87
10) 1,1-Dichloroethene	4.342	96	74046	20.036	ug/l	94
11) Methyl Iodide	4.589	142	80183	19.159	ug/l	98
12) Methyl Acetate	5.024	43	69773	20.561	ug/l #	85
13) Acrolein	4.177	56	40844	91.388	ug/l #	62
14) Acrylonitrile	5.718	53	174783	103.472	ug/l	92
15) Acetone	4.430	58	40429	108.821	ug/l	81
16) Carbon Disulfide	4.712	76	208103	19.803	ug/l #	95
17) Allyl chloride	5.024	41	86454	19.338	ug/l	93
18) Methylene Chloride	5.277	84	86486	20.324	ug/l	86
19) trans-1,2-Dichloroethene	5.789	96	79364	19.583	ug/l	94
20) Diisopropyl ether	6.677	45	220649	20.731	ug/l	92
21) 1,1-Dichloroethane	6.571	63	143739	20.255	ug/l	95
22) cis-1,2-Dichloroethene	7.483	96	95481	19.510	ug/l	98
23) tert-Butyl Alcohol	5.518	59	65179	108.696	ug/l #	100
24) Methyl tert-Butyl Ether	5.800	73	239569	20.727	ug/l	96
25) Chloroform	7.965	83	162515	20.127	ug/l	98
26) Cyclohexane	8.265	56	112766	19.822	ug/l #	82
29) 1,1-Dichloropropene	8.377	75	108227	19.048	ug/l	99
30) 2-Butanone	7.483	43	211597	97.513	ug/l	99
31) 2,2-Dichloropropane	7.488	77	131527	18.585	ug/l	98
32) 1,1,1-Trichloroethane	8.171	97	148244	18.931	ug/l	97
33) Carbon Tetrachloride	8.365	117	131545	18.532	ug/l	91
34) Benzene	8.606	78	347070	18.962	ug/l	98
35) Methacrylonitrile	7.777	41	49705	20.223	ug/l	90
36) 1,2-Dichloroethane	8.671	62	112070	18.667	ug/l	99
37) Trichloroethene	9.353	130	88658	18.305	ug/l	96
38) Methylcyclohexane	9.600	83	127826	18.406	ug/l	96
39) 1,2-Dichloropropane	9.624	63	81356	19.053	ug/l	96
40) Dibromomethane	9.712	93	63152	18.567	ug/l	95
41) Bromodichloromethane	9.888	83	127362	18.362	ug/l	97
42) Vinyl Acetate	6.606	43	844730	93.448	ug/l	96

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Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
43) Ethyl Acetate	7.565	43	86972	18.186	ug/l	97
44) Isopropyl Acetate	8.688	43	149169	18.616	ug/l	98
45) 1,4-Dioxane	9.694	88	34615	391.326	ug/l	94
46) Methyl methacrylate	9.682	41	68546	19.022	ug/l	92
47) n-amyl Acetate	12.494	43	133272	18.535	ug/l	98
48) t-1,3-Dichloropropene	10.841	75	124334	18.815	ug/l	96
49) cis-1,3-Dichloropropene	10.312	75	131220	18.439	ug/l	92
50) 1,1,2-Trichloroethane	11.018	97	84525	18.559	ug/l	92
51) Ethyl methacrylate	10.876	69	119642	18.866	ug/l	94
52) 1,3-Dichloropropane	11.165	76	139469	18.682	ug/l	99
53) Dibromochloromethane	11.365	129	102310	18.805	ug/l	99
54) 1,2-Dibromoethane	11.470	107	89716	19.057	ug/l	100
55) 2-Chloroethyl vinyl ether	10.165	63	273865	87.941	ug/l	98
56) Bromoform	12.576	173	63372	18.216	ug/l #	97
58) 4-Methyl-2-Pentanone	10.447	43	478765	101.690	ug/l	93
59) 2-Hexanone	11.200	43	356683	100.877	ug/l	93
61) Tetrachloroethene	11.106	164	97306	19.182	ug/l	96
62) Toluene	10.629	91	389407	19.551	ug/l	97
64) Chlorobenzene	11.894	112	244977	19.397	ug/l	99
65) 1,1,1,2-Tetrachloroethane	11.965	131	88545	19.300	ug/l	98
66) Ethyl Benzene	11.965	91	406922	19.216	ug/l	97
67) m/p-Xylenes	12.070	106	328044	39.108	ug/l	95
68) o-Xylene	12.400	106	156820	19.693	ug/l	93
69) Styrene	12.412	104	258345	19.050	ug/l	97
70) Isopropylbenzene	12.694	105	400038	19.473	ug/l	98
71) 1,1,2,2-Tetrachloroethane	12.941	83	108818	20.277	ug/l	96
72) 1,2,3-Trichloropropane	12.994	75	83573m	16.821	ug/l	
73) Bromobenzene	12.982	156	99549	19.556	ug/l	87
74) n-propylbenzene	13.035	91	473727	19.264	ug/l	100
75) 2-Chlorotoluene	13.129	91	284649	19.429	ug/l	94
76) 1,3,5-Trimethylbenzene	13.176	105	334153	19.164	ug/l	97
77) t-1,4-Dichloro-2-butene	12.735	75	39279	19.090	ug/l	97
78) 4-Chlorotoluene	13.223	91	283276	19.495	ug/l	94
79) tert-butylbenzene	13.441	119	287564	19.385	ug/l	98
80) 1,2,4-Trimethylbenzene	13.482	105	343876	19.775	ug/l	98
81) sec-Butylbenzene	13.617	105	410375	19.182	ug/l	99
82) p-Isopropyltoluene	13.729	119	346644	19.320	ug/l	98
83) 1,3-Dichlorobenzene	13.735	146	184913	19.437	ug/l	97
84) 1,4-Dichlorobenzene	13.812	146	175865	19.097	ug/l	97
85) n-Butylbenzene	14.059	91	278294	18.414	ug/l	98
86) Hexachloroethane	14.335	117	65568	19.128	ug/l	83
87) 1,2-Dichlorobenzene	14.106	146	181809	20.077	ug/l	96
88) 1,2-Dibromo-3-Chloropr...	14.723	75	22097	18.888	ug/l	94
89) 1,2,4-Trichlorobenzene	15.841	180	90195	18.172	ug/l	97
90) Hexachlorobutadiene	15.500	225	35792	17.995	ug/l	94
91) Naphthalene	15.641	128	294122	18.432	ug/l	99
92) 1,2,3-Trichlorobenzene	15.841	180	90195	18.172	ug/l	97

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

