

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN101723\
 Data File : VN079574.D
 Acq On : 17 Oct 2023 11:21
 Operator : JC\MD
 Sample : VSTDICCC020
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 6 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 VSTDICCC020

Manual Integrations
 APPROVED

Reviewed By : John Carlone 10/18/2023
 Supervised By : Mahesh Dadoda 10/20/2023

Quant Time: Oct 18 02:03:09 2023
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\624N101723W.M
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
 QLast Update : Wed Oct 18 01:58:48 2023
 Response via : Initial Calibration

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

Internal Standards						
1) Bromochloromethane	7.824	128	21299	30.000	ug/l	0.00
28) 1,4-Difluorobenzene	9.106	114	168559	30.000	ug/l	0.00
57) Chlorobenzene-d5	11.870	117	203156	30.000	ug/l	0.00
System Monitoring Compounds						
27) 1,2-Dichloroethane-d4	8.582	65	94070	31.064	ug/l	0.00
Spiked Amount 30.000	Range 91 - 110		Recovery = 103.533%			
60) 4-Bromofluorobenzene	12.853	95	113903	30.659	ug/l	0.00
Spiked Amount 30.000	Range 63 - 112		Recovery = 102.200%			
63) Toluene-d8	10.570	98	265439	30.491	ug/l	0.00
Spiked Amount 30.000	Range 91 - 112		Recovery = 101.633%			
Target Compounds						
					Qvalue	
2) Dichlorodifluoromethane	2.130	85	63763	20.644	ug/l	94
3) Chloromethane	2.365	50	82125	20.514	ug/l	99
4) Vinyl Chloride	2.518	62	88151	20.403	ug/l	100
5) Bromomethane	2.959	94	54004	20.159	ug/l	99
6) Chloroethane	3.124	64	61952	20.372	ug/l	98
7) Trichlorofluoromethane	3.500	101	107567	20.403	ug/l	99
8) Diethyl Ether	3.965	74	39219	20.525	ug/l	98
9) 1,1,2-Trichlorotrifluo...	4.383	101	60737	20.136	ug/l	84
10) 1,1-Dichloroethene	4.341	96	58737	20.467	ug/l	92
11) Methyl Iodide	4.594	142	63637	20.028	ug/l	91
12) Methyl Acetate	5.030	43	140255	20.273	ug/l	91
13) Acrolein	4.183	56	58182	101.735	ug/l	100
14) Acrylonitrile	5.724	53	168488	101.695	ug/l	97
15) Acetone	4.436	58	54474	103.546	ug/l	80
16) Carbon Disulfide	4.718	76	176593	20.180	ug/l	96
17) Allyl chloride	5.024	41	94098	21.267	ug/l	98
18) Methylene Chloride	5.283	84	72487	20.521	ug/l	97
19) trans-1,2-Dichloroethene	5.794	96	64173	19.988	ug/l	97
20) Diisopropyl ether	6.683	45	221597	21.121	ug/l	99
21) 1,1-Dichloroethane	6.577	63	131913	20.691	ug/l	98
22) cis-1,2-Dichloroethene	7.494	96	75710	20.473	ug/l	97
23) tert-Butyl Alcohol	5.524	59	55986m	100.973	ug/l	
24) Methyl tert-Butyl Ether	5.800	73	199012	20.668	ug/l	99
25) Chloroform	7.965	83	132585	20.582	ug/l	98
26) Cyclohexane	8.259	56	100077	20.766	ug/l #	99
29) 1,1-Dichloropropene	8.377	75	96108	19.511	ug/l	99
30) 2-Butanone	7.488	43	244085	98.854	ug/l #	97
31) 2,2-Dichloropropane	7.494	77	107264	19.313	ug/l	99
32) 1,1,1-Trichloroethane	8.171	97	114207	19.507	ug/l	98
33) Carbon Tetrachloride	8.365	117	97676	19.616	ug/l	99
34) Benzene	8.612	78	289371	19.335	ug/l	99
35) Methacrylonitrile	7.782	41	51538	19.842	ug/l	92
36) 1,2-Dichloroethane	8.671	62	104408	19.539	ug/l	99
37) Trichloroethene	9.359	130	66099	18.895	ug/l	99
38) Methylcyclohexane	9.600	83	91537	19.301	ug/l	99
39) 1,2-Dichloropropane	9.623	63	76696	19.419	ug/l	98
40) Dibromomethane	9.712	93	49846	19.231	ug/l	96
41) Bromodichloromethane	9.888	83	103873	19.338	ug/l	99
42) Vinyl Acetate	6.612	43	618227	98.702	ug/l	100

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Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
43) Ethyl Acetate	7.565	43	89249	19.222	ug/l	98
44) Isopropyl Acetate	8.694	43	154452	18.713	ug/l	97
45) 1,4-Dioxane	9.706	88	25962	401.847	ug/l	92
46) Methyl methacrylate	9.688	41	72824	19.888	ug/l	92
47) n-amyl Acetate	12.500	43	119052	19.986	ug/l	99
48) t-1,3-Dichloropropene	10.841	75	106836	19.675	ug/l	97
49) cis-1,3-Dichloropropene	10.318	75	115764	19.496	ug/l	99
50) 1,1,2-Trichloroethane	11.018	97	69349	19.286	ug/l	96
51) Ethyl methacrylate	10.876	69	99400	20.036	ug/l	98
52) 1,3-Dichloropropane	11.165	76	123217	19.343	ug/l	99
53) Dibromochloromethane	11.365	129	72565	19.746	ug/l	100
54) 1,2-Dibromoethane	11.470	107	68565	19.328	ug/l	95
55) 2-Chloroethyl vinyl ether	10.165	63	175848	92.905	ug/l	97
56) Bromoform	12.582	173	47611	19.584	ug/l	99
58) 4-Methyl-2-Pentanone	10.447	43	483253	101.984	ug/l	100
59) 2-Hexanone	11.200	43	353501	101.688	ug/l	98
61) Tetrachloroethene	11.106	164	56205	20.150	ug/l	94
62) Toluene	10.635	91	308052	19.841	ug/l	100
64) Chlorobenzene	11.894	112	176838	19.638	ug/l	94
65) 1,1,1,2-Tetrachloroethane	11.965	131	68055	19.840	ug/l	97
66) Ethyl Benzene	11.970	91	319732	19.987	ug/l	99
67) m/p-Xylenes	12.076	106	239144	40.417	ug/l	95
68) o-Xylene	12.400	106	112504	19.890	ug/l	96
69) Styrene	12.417	104	183748	20.463	ug/l	99
70) Isopropylbenzene	12.700	105	291761	20.099	ug/l	99
71) 1,1,2,2-Tetrachloroethane	12.941	83	102979	19.951	ug/l	99
72) 1,2,3-Trichloropropane	12.994	75	92983m	18.697	ug/l	
73) Bromobenzene	12.982	156	69378	20.345	ug/l	98
74) n-propylbenzene	13.041	91	340420	20.143	ug/l	100
75) 2-Chlorotoluene	13.129	91	211680	20.148	ug/l	100
76) 1,3,5-Trimethylbenzene	13.176	105	241343	20.338	ug/l	97
77) t-1,4-Dichloro-2-butene	12.741	75	29300	20.481	ug/l	99
78) 4-Chlorotoluene	13.223	91	202290	20.378	ug/l	99
79) tert-butylbenzene	13.441	119	189129	19.823	ug/l	100
80) 1,2,4-Trimethylbenzene	13.488	105	233019	20.265	ug/l	99
81) sec-Butylbenzene	13.617	105	267776	19.992	ug/l	100
82) p-Isopropyltoluene	13.735	119	214305	20.170	ug/l	100
83) 1,3-Dichlorobenzene	13.735	146	113575	20.255	ug/l	99
84) 1,4-Dichlorobenzene	13.817	146	107296	19.960	ug/l	98
85) n-Butylbenzene	14.059	91	166906	20.106	ug/l	100
86) Hexachloroethane	14.335	117	44387	19.324	ug/l	99
87) 1,2-Dichlorobenzene	14.111	146	116205	20.850	ug/l	98
88) 1,2-Dibromo-3-Chloropr...	14.723	75	16530	21.018	ug/l	97
89) 1,2,4-Trichlorobenzene	15.847	180	40520	20.626	ug/l	95
90) Hexachlorobutadiene	15.505	225	28023	20.139	ug/l	97
91) Naphthalene	15.641	128	101968	20.122	ug/l	99
92) 1,2,3-Trichlorobenzene	15.847	180	40520	20.626	ug/l	95

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

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