

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN090723\
 Data File : VN079187.D
 Acq On : 07 Sep 2023 20:32
 Operator : JC\MD
 Sample : VSTDCCC020
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 19 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 VSTDCCC020EC

Manual Integrations
 APPROVED

Reviewed By : John Carlone 09/08/2023
 Supervised By : Mahesh Dadoda 09/08/2023

Quant Time: Sep 08 05:46:30 2023
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\624N090723W.M
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
 QLast Update : Fri Sep 08 05:09:17 2023
 Response via : Initial Calibration

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

Internal Standards						
1) Bromochloromethane	7.818	128	30621	30.000	ug/l	0.00
28) 1,4-Difluorobenzene	9.106	114	163748	30.000	ug/l	0.00
57) Chlorobenzene-d5	11.870	117	147685	30.000	ug/l	0.00
System Monitoring Compounds						
27) 1,2-Dichloroethane-d4	8.588	65	66113	28.737	ug/l	0.00
Spiked Amount 30.000	Range 91 - 110		Recovery =	95.800%		
60) 4-Bromofluorobenzene	12.853	95	65526	30.112	ug/l	0.00
Spiked Amount 30.000	Range 63 - 112		Recovery =	100.367%		
63) Toluene-d8	10.570	98	209719	30.386	ug/l	0.00
Spiked Amount 30.000	Range 91 - 112		Recovery =	101.300%		
Target Compounds						Qvalue
2) Dichlorodifluoromethane	2.130	85	32674	19.132	ug/l	95
3) Chloromethane	2.365	50	29099	16.993	ug/l	97
4) Vinyl Chloride	2.512	62	30986	18.289	ug/l	97
5) Bromomethane	2.953	94	16670	16.031	ug/l	96
6) Chloroethane	3.112	64	20295	19.559	ug/l	96
7) Trichlorofluoromethane	3.489	101	43256	21.445	ug/l	98
8) Diethyl Ether	3.965	74	22441	30.343	ug/l	100
9) 1,1,2-Trichlorotrifluo...	4.371	101	31015	27.902	ug/l	99
10) 1,1-Dichloroethene	4.341	96	31586	29.327	ug/l	89
11) Methyl Iodide	4.594	142	32330	23.830	ug/l	98
12) Methyl Acetate	5.036	43	73101	29.124	ug/l	99
13) Acrolein	4.189	56	13711	59.978	ug/l	95
14) Acrylonitrile	5.730	53	102457	139.137	ug/l	97
15) Acetone	4.441	58	27444	142.867	ug/l	86
16) Carbon Disulfide	4.712	76	89696	28.184	ug/l	96
17) Allyl chloride	5.030	41	46932	27.118	ug/l	90
18) Methylene Chloride	5.277	84	40966	28.358	ug/l	98
19) trans-1,2-Dichloroethene	5.794	96	35992	26.710	ug/l	96
20) Diisopropyl ether	6.683	45	114602	22.181	ug/l #	92
21) 1,1-Dichloroethane	6.571	63	68621	22.672	ug/l	99
22) cis-1,2-Dichloroethene	7.494	96	40653	19.291	ug/l	97
23) tert-Butyl Alcohol	5.541	59	37330	131.778	ug/l #	100
24) Methyl tert-Butyl Ether	5.806	73	109044	25.653	ug/l	97
25) Chloroform	7.971	83	69444	19.027	ug/l	94
26) Cyclohexane	8.265	56	51664	18.823	ug/l #	99
29) 1,1-Dichloropropene	8.377	75	50439	19.212	ug/l	99
30) 2-Butanone	7.494	43	132249	100.149	ug/l	99
31) 2,2-Dichloropropane	7.494	77	42603	16.269	ug/l	97
32) 1,1,1-Trichloroethane	8.177	97	59849	19.349	ug/l	98
33) Carbon Tetrachloride	8.371	117	52100	19.609	ug/l	94
34) Benzene	8.612	78	159445	19.115	ug/l	98
35) Methacrylonitrile	7.788	41	28582	20.102	ug/l	95
36) 1,2-Dichloroethane	8.676	62	50694	18.428	ug/l	100
37) Trichloroethene	9.359	130	37222	18.879	ug/l	99
38) Methylcyclohexane	9.606	83	48623	18.526	ug/l	97
39) 1,2-Dichloropropane	9.629	63	41586	19.328	ug/l	94
40) Dibromomethane	9.718	93	27732	19.544	ug/l	96
41) Bromodichloromethane	9.894	83	55523	19.629	ug/l #	93
42) Vinyl Acetate	6.612	43	349560	111.464	ug/l	99

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Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
43) Ethyl Acetate	7.571	43	53997	21.531	ug/l	97
44) Isopropyl Acetate	8.694	43	89542	19.848	ug/l	97
45) 1,4-Dioxane	9.700	88	17090	380.564	ug/l #	65
46) Methyl methacrylate	9.688	41	37761	18.734	ug/l	97
47) n-amyl Acetate	12.500	43	63632	20.055	ug/l	96
48) t-1,3-Dichloropropene	10.847	75	54678	17.868	ug/l	98
49) cis-1,3-Dichloropropene	10.318	75	61015	19.115	ug/l	98
50) 1,1,2-Trichloroethane	11.023	97	39201	19.693	ug/l	99
51) Ethyl methacrylate	10.882	69	58069	18.889	ug/l	98
52) 1,3-Dichloropropane	11.170	76	68268	20.088	ug/l	97
53) Dibromochloromethane	11.365	129	40928	19.603	ug/l	99
54) 1,2-Dibromoethane	11.476	107	38795	19.192	ug/l	98
55) 2-Chloroethyl vinyl ether	10.165	63	80248	73.464	ug/l	99
56) Bromoform	12.582	173	28248	19.417	ug/l	96
58) 4-Methyl-2-Pentanone	10.453	43	270467	99.799	ug/l	100
59) 2-Hexanone	11.206	43	194669	102.281	ug/l	100
61) Tetrachloroethene	11.106	164	31188	19.408	ug/l	95
62) Toluene	10.635	91	170026	19.773	ug/l	98
64) Chlorobenzene	11.900	112	97456	19.427	ug/l	97
65) 1,1,1,2-Tetrachloroethane	11.970	131	37669	19.614	ug/l	99
66) Ethyl Benzene	11.970	91	170807	19.728	ug/l	100
67) m/p-Xylenes	12.076	106	132247	40.594	ug/l	98
68) o-Xylene	12.406	106	62609	19.928	ug/l	98
69) Styrene	12.417	104	103655	20.685	ug/l	98
70) Isopropylbenzene	12.700	105	157707	19.748	ug/l	99
71) 1,1,2,2-Tetrachloroethane	12.941	83	60312	20.189	ug/l	97
72) 1,2,3-Trichloropropane	13.000	75	49043m	19.511	ug/l	
73) Bromobenzene	12.988	156	38519	19.309	ug/l	100
74) n-propylbenzene	13.041	91	182115	20.015	ug/l	99
75) 2-Chlorotoluene	13.129	91	116931	20.041	ug/l	98
76) 1,3,5-Trimethylbenzene	13.182	105	133207	20.173	ug/l	99
77) t-1,4-Dichloro-2-butene	12.741	75	15535	17.554	ug/l	92
78) 4-Chlorotoluene	13.229	91	108848	19.758	ug/l	99
79) tert-butylbenzene	13.447	119	108683	20.052	ug/l	99
80) 1,2,4-Trimethylbenzene	13.488	105	129314	20.506	ug/l	100
81) sec-Butylbenzene	13.623	105	150565	20.303	ug/l	100
82) p-Isopropyltoluene	13.735	119	118622	20.251	ug/l	99
83) 1,3-Dichlorobenzene	13.741	146	63209	19.952	ug/l	99
84) 1,4-Dichlorobenzene	13.817	146	59385	19.987	ug/l	99
85) n-Butylbenzene	14.064	91	84207	18.875	ug/l	100
86) Hexachloroethane	14.341	117	18270	15.753	ug/l	98
87) 1,2-Dichlorobenzene	14.111	146	52629	16.833	ug/l	98
88) 1,2-Dibromo-3-Chloropr...	14.723	75	10226	20.251	ug/l	99
89) 1,2,4-Trichlorobenzene	15.847	180	24671	18.440	ug/l	99
90) Hexachlorobutadiene	15.505	225	15720	19.344	ug/l	97
91) Naphthalene	15.647	128	58029	16.598	ug/l	99
92) 1,2,3-Trichlorobenzene	15.847	180	24671	18.440	ug/l	99

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

