

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN110823\
 Data File : VN079991.D
 Acq On : 08 Nov 2023 14:21
 Operator : JC\MD
 Sample : VSTDICC005
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 9 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 VSTDICC005

Manual Integrations
 APPROVED

Reviewed By : John Carlone 11/09/2023
 Supervised By : Semsettin Yesilyurt 11/09/2023

Quant Time: Nov 09 03:47:32 2023
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\624N110823W.M
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
 QLast Update : Wed Nov 08 15:03:03 2023
 Response via : Initial Calibration

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

Internal Standards						
1) Bromochloromethane	7.818	128	80033	30.000	ug/l	0.00
28) 1,4-Difluorobenzene	9.106	114	428416	30.000	ug/l	0.00
57) Chlorobenzene-d5	11.870	117	395353	30.000	ug/l	0.00
System Monitoring Compounds						
27) 1,2-Dichloroethane-d4	8.582	65	203060	30.225	ug/l	0.00
Spiked Amount 30.000	Range 91 - 110		Recovery = 100.767%			
60) 4-Bromofluorobenzene	12.853	95	181203	28.661	ug/l	0.00
Spiked Amount 30.000	Range 63 - 112		Recovery = 95.533%			
63) Toluene-d8	10.570	98	560492	29.921	ug/l	0.00
Spiked Amount 30.000	Range 91 - 112		Recovery = 99.733%			
Target Compounds						Qvalue
2) Dichlorodifluoromethane	2.130	85	24444	4.684	ug/l	99
3) Chloromethane	2.359	50	33941	5.163	ug/l	100
4) Vinyl Chloride	2.512	62	25417	4.627	ug/l	90
5) Bromomethane	2.953	94	15712	5.224	ug/l	98
6) Chloroethane	3.124	64	15606m	4.876	ug/l	
7) Trichlorofluoromethane	3.494	101	39554	4.798	ug/l	97
8) Diethyl Ether	3.971	74	14041	4.744	ug/l	94
9) 1,1,2-Trichlorotrifluo...	4.377	101	22578	4.847	ug/l	69
10) 1,1-Dichloroethene	4.341	96	21623	5.248	ug/l	88
11) Methyl Iodide	4.588	142	24030	4.409	ug/l	93
12) Methyl Acetate	5.030	43	53253	4.985	ug/l	94
13) Acrolein	4.183	56	23158	25.657	ug/l	99
14) Acrylonitrile	5.724	53	59572	23.477	ug/l #	58
15) Acetone	4.436	58	17817m	20.795	ug/l	
16) Carbon Disulfide	4.712	76	70335	4.999	ug/l	97
17) Allyl chloride	5.024	41	34338	4.769	ug/l	94
18) Methylene Chloride	5.283	84	29078	5.262	ug/l	98
19) trans-1,2-Dichloroethene	5.783	96	25490	4.991	ug/l	95
20) Diisopropyl ether	6.671	45	77114	4.583	ug/l	91
21) 1,1-Dichloroethane	6.577	63	48718	4.851	ug/l	99
22) cis-1,2-Dichloroethene	7.494	96	29526	4.982	ug/l	94
23) tert-Butyl Alcohol	5.524	59	17103m	26.564	ug/l	
24) Methyl tert-Butyl Ether	5.800	73	70750	4.663	ug/l	99
25) Chloroform	7.971	83	52279	5.043	ug/l	87
26) Cyclohexane	8.259	56	34154	4.323	ug/l #	97
29) 1,1-Dichloropropene	8.371	75	36090	4.908	ug/l	99
30) 2-Butanone	7.488	43	80600	22.953	ug/l	100
31) 2,2-Dichloropropane	7.494	77	38133	4.798	ug/l	98
32) 1,1,1-Trichloroethane	8.177	97	42462	5.059	ug/l	99
33) Carbon Tetrachloride	8.365	117	37284	5.053	ug/l	92
34) Benzene	8.612	78	110338	5.052	ug/l	95
35) Methacrylonitrile	7.782	41	17818	4.840	ug/l	80
36) 1,2-Dichloroethane	8.676	62	41199	5.212	ug/l	100
37) Trichloroethene	9.353	130	26607	5.065	ug/l	98
38) Methylcyclohexane	9.606	83	30831	4.466	ug/l	97
39) 1,2-Dichloropropane	9.623	63	29472	5.098	ug/l	93
40) Dibromomethane	9.718	93	18696	5.003	ug/l	96
41) Bromodichloromethane	9.894	83	39299	5.078	ug/l	94
42) Vinyl Acetate	6.606	43	199338	22.854	ug/l	100

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Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
43) Ethyl Acetate	7.565	43	33615	5.096	ug/l	99
44) Isopropyl Acetate	8.688	43	51040	4.749	ug/l	94
45) 1,4-Dioxane	9.700	88	7742	93.466	ug/l #	90
46) Methyl methacrylate	9.682	41	22881	4.428	ug/l	94
47) n-amyl Acetate	12.500	43	35751	4.141	ug/l	95
48) t-1,3-Dichloropropene	10.841	75	35892	4.541	ug/l	99
49) cis-1,3-Dichloropropene	10.318	75	40261	4.608	ug/l	94
50) 1,1,2-Trichloroethane	11.018	97	26343	5.168	ug/l	95
51) Ethyl methacrylate	10.876	69	32041	4.373	ug/l	95
52) 1,3-Dichloropropane	11.165	76	43699	4.795	ug/l	93
53) Dibromochloromethane	11.359	129	26697	4.896	ug/l	100
54) 1,2-Dibromoethane	11.470	107	25885	5.057	ug/l	99
55) 2-Chloroethyl vinyl ether	10.165	63	66632	19.773	ug/l	97
56) Bromoform	12.582	173	16772	4.693	ug/l	96
58) 4-Methyl-2-Pentanone	10.447	43	151549	22.945	ug/l	98
59) 2-Hexanone	11.200	43	110235	21.909	ug/l	100
61) Tetrachloroethene	11.106	164	24223	5.226	ug/l	89
62) Toluene	10.635	91	114402	5.003	ug/l	98
64) Chlorobenzene	11.894	112	68163	4.995	ug/l	97
65) 1,1,1,2-Tetrachloroethane	11.964	131	24181	4.831	ug/l	96
66) Ethyl Benzene	11.964	91	109801	4.570	ug/l	99
67) m/p-Xylenes	12.076	106	78149	8.736	ug/l	94
68) o-Xylene	12.400	106	38372	4.475	ug/l	100
69) Styrene	12.417	104	60917	4.292	ug/l	99
70) Isopropylbenzene	12.700	105	93156	4.356	ug/l	99
71) 1,1,2,2-Tetrachloroethane	12.941	83	37052	5.086	ug/l	97
72) 1,2,3-Trichloropropane	12.994	75	34131m	3.658	ug/l	
73) Bromobenzene	12.982	156	25418	4.834	ug/l	95
74) n-propylbenzene	13.041	91	112044	4.379	ug/l	99
75) 2-Chlorotoluene	13.129	91	76323	4.693	ug/l	99
76) 1,3,5-Trimethylbenzene	13.176	105	75930	4.292	ug/l	96
77) t-1,4-Dichloro-2-butene	12.735	75	9697	4.375	ug/l	88
78) 4-Chlorotoluene	13.223	91	72035	4.460	ug/l	97
79) tert-butylbenzene	13.441	119	58386	4.214	ug/l	96
80) 1,2,4-Trimethylbenzene	13.482	105	71278	4.109	ug/l	98
81) sec-Butylbenzene	13.617	105	83089	4.249	ug/l	100
82) p-Isopropyltoluene	13.729	119	62442	3.932	ug/l	98
83) 1,3-Dichlorobenzene	13.735	146	44091	4.602	ug/l	96
84) 1,4-Dichlorobenzene	13.817	146	43587	4.635	ug/l	99
85) n-Butylbenzene	14.058	91	51145	3.850	ug/l	97
86) Hexachloroethane	14.335	117	14358	4.649	ug/l	97
87) 1,2-Dichlorobenzene	14.106	146	43861	4.792	ug/l	99
88) 1,2-Dibromo-3-Chloropr...	14.729	75	6260	4.699	ug/l	97
89) 1,2,4-Trichlorobenzene	15.847	180	18309	4.318	ug/l	94
90) Hexachlorobutadiene	15.505	225	9870	4.723	ug/l	95
91) Naphthalene	15.647	128	55214	4.057	ug/l	99
92) 1,2,3-Trichlorobenzene	15.847	180	18309	4.318	ug/l	94

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

