

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN022324\
 Data File : VN081160.D
 Acq On : 23 Feb 2024 14:50
 Operator : JC\MD
 Sample : VSTDCCC020
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 11 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 VSTDCCC020EC

Manual Integrations
 APPROVED

Reviewed By : John Carlone 02/26/2024
 Supervised By : Mahesh Dadoda 02/26/2024

Quant Time: Feb 24 00:14:10 2024
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\624N020924W.M
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
 QLast Update : Sat Feb 10 01:55:02 2024
 Response via : Initial Calibration

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

Internal Standards						
1) Bromochloromethane	7.818	128	57495	30.000	ug/l	0.00
28) 1,4-Difluorobenzene	9.100	114	324931	30.000	ug/l	0.00
57) Chlorobenzene-d5	11.870	117	305638	30.000	ug/l	0.00
System Monitoring Compounds						
27) 1,2-Dichloroethane-d4	8.576	65	137928	31.926	ug/l	0.00
Spiked Amount 30.000	Range 91 - 110		Recovery = 106.433%			
60) 4-Bromofluorobenzene	12.853	95	140628	30.097	ug/l	0.00
Spiked Amount 30.000	Range 63 - 112		Recovery = 100.333%			
63) Toluene-d8	10.570	98	410472	29.926	ug/l	0.00
Spiked Amount 30.000	Range 91 - 112		Recovery = 99.767%			
Target Compounds						Qvalue
2) Dichlorodifluoromethane	2.124	85	70391	18.006	ug/l	98
3) Chloromethane	2.359	50	67144	17.091	ug/l	96
4) Vinyl Chloride	2.518	62	70990	15.156	ug/l	97
5) Bromomethane	2.965	94	45339	14.411	ug/l	98
6) Chloroethane	3.124	64	47396	15.523	ug/l	96
7) Trichlorofluoromethane	3.500	101	105002	17.024	ug/l	93
8) Diethyl Ether	3.959	74	41851	19.305	ug/l	88
9) 1,1,2-Trichlorotrifluo...	4.377	101	57678	17.230	ug/l	61
10) 1,1-Dichloroethene	4.341	96	54801	16.703	ug/l	92
11) Methyl Iodide	4.583	142	45325	12.899	ug/l	96
12) Methyl Acetate	5.024	43	70942	23.861	ug/l	89
13) Acrolein	4.177	56	78757	121.467	ug/l	98
14) Acrylonitrile	5.718	53	169439	114.765	ug/l #	91
15) Acetone	4.424	58	38326	112.843	ug/l	92
16) Carbon Disulfide	4.712	76	142056	15.776	ug/l	96
17) Allyl chloride	5.024	41	83591	20.286	ug/l	83
18) Methylene Chloride	5.277	84	67946	18.121	ug/l	90
19) trans-1,2-Dichloroethene	5.788	96	61697	16.564	ug/l	94
20) Diisopropyl ether	6.677	45	210436	21.248	ug/l	95
21) 1,1-Dichloroethane	6.565	63	119550	18.836	ug/l	95
22) cis-1,2-Dichloroethene	7.488	96	73716	17.033	ug/l	99
23) tert-Butyl Alcohol	5.524	59	61351	114.069	ug/l #	100
24) Methyl tert-Butyl Ether	5.800	73	209801	19.288	ug/l #	92
25) Chloroform	7.965	83	126042	17.900	ug/l	99
26) Cyclohexane	8.259	56	94525	19.778	ug/l #	91
29) 1,1-Dichloropropene	8.371	75	87735	18.127	ug/l	99
30) 2-Butanone	7.482	43	211933	119.345	ug/l	98
31) 2,2-Dichloropropane	7.500	77	96318	17.478	ug/l	98
32) 1,1,1-Trichloroethane	8.165	97	103497	16.998	ug/l	95
33) Carbon Tetrachloride	8.365	117	87741	17.104	ug/l	97
34) Benzene	8.606	78	274442	18.555	ug/l	93
35) Methacrylonitrile	7.777	41	50191	24.047	ug/l	90
36) 1,2-Dichloroethane	8.671	62	101541	20.456	ug/l	97
37) Trichloroethene	9.353	130	66296	16.859	ug/l	87
38) Methylcyclohexane	9.606	83	100072	20.718	ug/l	99
39) 1,2-Dichloropropane	9.623	63	69950	19.939	ug/l	100
40) Dibromomethane	9.712	93	52013	19.487	ug/l	89
41) Bromodichloromethane	9.888	83	98089	18.777	ug/l	96
42) Vinyl Acetate	6.606	43	851493	112.099	ug/l	98

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Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
43) Ethyl Acetate	7.559	43	89851	24.292	ug/l	100
44) Isopropyl Acetate	8.688	43	163291	24.571	ug/l	92
45) 1,4-Dioxane	9.700	88	30231	479.634	ug/l	94
46) Methyl methacrylate	9.688	41	72600	23.875	ug/l	88
47) n-amyl Acetate	12.494	43	139802	24.121	ug/l	91
48) t-1,3-Dichloropropene	10.841	75	103542	18.913	ug/l	96
49) cis-1,3-Dichloropropene	10.318	75	114950	19.377	ug/l #	86
50) 1,1,2-Trichloroethane	11.018	97	71120	19.257	ug/l	99
51) Ethyl methacrylate	10.876	69	108096	20.942	ug/l	80
52) 1,3-Dichloropropane	11.165	76	123711	20.285	ug/l	98
53) Dibromochloromethane	11.365	129	71784	17.833	ug/l	98
54) 1,2-Dibromoethane	11.470	107	72851	19.067	ug/l	97
55) 2-Chloroethyl vinyl ether	10.165	63	283044	107.004	ug/l	99
56) Bromoform	12.582	173	44784	17.469	ug/l #	94
58) 4-Methyl-2-Pentanone	10.447	43	480920	121.199	ug/l #	89
59) 2-Hexanone	11.200	43	352471	120.772	ug/l	90
61) Tetrachloroethene	11.106	164	60804	17.416	ug/l	90
62) Toluene	10.635	91	301710	18.021	ug/l	99
64) Chlorobenzene	11.894	112	184565	17.999	ug/l	98
65) 1,1,1,2-Tetrachloroethane	11.964	131	65456	17.209	ug/l	95
66) Ethyl Benzene	11.964	91	320705	18.218	ug/l	97
67) m/p-Xylenes	12.076	106	249305	36.062	ug/l	97
68) o-Xylene	12.400	106	119126	17.584	ug/l	98
69) Styrene	12.412	104	205112	18.390	ug/l	97
70) Isopropylbenzene	12.700	105	314680	19.059	ug/l	99
71) 1,1,2,2-Tetrachloroethane	12.941	83	99061	19.457	ug/l	98
72) 1,2,3-Trichloropropane	12.994	75	81273m	20.392	ug/l	
73) Bromobenzene	12.982	156	75117	18.295	ug/l	97
74) n-propylbenzene	13.041	91	376416	20.060	ug/l	100
75) 2-Chlorotoluene	13.129	91	224793	19.298	ug/l	95
76) 1,3,5-Trimethylbenzene	13.176	105	268288	19.860	ug/l	99
77) t-1,4-Dichloro-2-butene	12.741	75	33451	22.180	ug/l	91
78) 4-Chlorotoluene	13.223	91	224500	19.243	ug/l	97
79) tert-butylbenzene	13.441	119	228235	20.352	ug/l	97
80) 1,2,4-Trimethylbenzene	13.488	105	265014	19.689	ug/l	96
81) sec-Butylbenzene	13.617	105	323634	20.608	ug/l	99
82) p-Isopropyltoluene	13.735	119	262686	19.925	ug/l	99
83) 1,3-Dichlorobenzene	13.735	146	134239	18.178	ug/l	99
84) 1,4-Dichlorobenzene	13.817	146	137943	18.610	ug/l	98
85) n-Butylbenzene	14.058	91	234840	21.588	ug/l	98
86) Hexachloroethane	14.335	117	43560	20.947	ug/l	82
87) 1,2-Dichlorobenzene	14.111	146	135105	18.792	ug/l	97
88) 1,2-Dibromo-3-Chloropr...	14.723	75	18914	20.583	ug/l	96
89) 1,2,4-Trichlorobenzene	15.841	180	72605	20.642	ug/l	99
90) Hexachlorobutadiene	15.505	225	25810	16.726	ug/l	96
91) Naphthalene	15.647	128	263846	21.126	ug/l	99
92) 1,2,3-Trichlorobenzene	15.841	180	72605	20.642	ug/l	99

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

