

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN031623\
 Data File : VN077014.D
 Acq On : 16 Mar 2023 11:13
 Operator : JC\MD
 Sample : VSTDCCC020
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 2 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 VSTDCCC020

Quant Time: Mar 17 03:19:37 2023
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\624N030823W.M
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
 QLast Update : Thu Mar 09 04:16:54 2023
 Response via : Initial Calibration

Manual Integrations APPROVED

Reviewed By :John
 Carlone

03/17/2023
 Supervised By :Mahesh
 Dadoda

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

Internal Standards						
1) Bromochloromethane	7.819	128	44011	30.000	ug/l	0.00
28) 1,4-Difluorobenzene	9.107	114	313372	30.000	ug/l	0.00
57) Chlorobenzene-d5	11.865	117	348396	30.000	ug/l	0.00

System Monitoring Compounds						
27) 1,2-Dichloroethane-d4	8.583	65	131089	32.405	ug/l	0.00
Spiked Amount	30.000	Range	91 - 110	Recovery	=	108.033%
60) 4-Bromofluorobenzene	12.854	95	198117	30.046	ug/l	0.00
Spiked Amount	30.000	Range	63 - 112	Recovery	=	100.167%
63) Toluene-d8	10.566	98	374313	30.546	ug/l	0.00
Spiked Amount	30.000	Range	91 - 112	Recovery	=	101.833%

Target Compounds						Qvalue
2) Dichlorodifluoromethane	2.143	85	110358	19.595	ug/l	94
3) Chloromethane	2.378	50	76256	14.814	ug/l	100
4) Vinyl Chloride	2.531	62	79460	16.928	ug/l #	87
5) Bromomethane	2.972	94	49715	16.561	ug/l	89
6) Chloroethane	3.137	64	54749	19.849	ug/l	99
7) Trichlorofluoromethane	3.513	101	177683	20.262	ug/l	95
8) Diethyl Ether	3.972	74	70989	21.586	ug/l	91
9) 1,1,2-Trichlorotrifluo...	4.389	101	102307	20.594	ug/l	98
10) 1,1-Dichloroethene	4.360	96	96014	19.912	ug/l	94
11) Methyl Iodide	4.607	142	125913	21.671	ug/l	95
12) Methyl Acetate	5.037	43	186814	23.555	ug/l	98
13) Acrolein	4.189	56	144089	122.894	ug/l	100
14) Acrylonitrile	5.725	53	292961	112.135	ug/l	98
15) Acetone	4.437	58	115221	162.051	ug/l	91
16) Carbon Disulfide	4.725	76	285219	21.332	ug/l	98
17) Allyl chloride	5.037	41	174293	24.099	ug/l	96
18) Methylene Chloride	5.295	84	118772	21.058	ug/l	92
19) trans-1,2-Dichloroethene	5.801	96	105678	20.799	ug/l	97
20) Diisopropyl ether	6.683	45	391713	24.008	ug/l	98
21) 1,1-Dichloroethane	6.578	63	219418	22.599	ug/l	98
22) cis-1,2-Dichloroethene	7.495	96	121550	20.875	ug/l	96
23) tert-Butyl Alcohol	5.525	59	89820	118.377	ug/l #	100
24) Methyl tert-Butyl Ether	5.807	73	345923	22.004	ug/l	94
25) Chloroform	7.972	83	211573	21.212	ug/l	100
26) Cyclohexane	8.266	56	194470m	21.937	ug/l	
29) 1,1-Dichloropropene	8.377	75	157143	21.290	ug/l	98
30) 2-Butanone	7.489	43	445099	132.173	ug/l	99
31) 2,2-Dichloropropane	7.495	77	168328	23.018	ug/l #	65
32) 1,1,1-Trichloroethane	8.177	97	179822	20.886	ug/l	98
33) Carbon Tetrachloride	8.366	117	155079	20.371	ug/l	91
34) Benzene	8.613	78	482274	21.312	ug/l	98
35) Methacrylonitrile	7.783	41	90125	23.784	ug/l	96
36) 1,2-Dichloroethane	8.677	62	168939	22.273	ug/l	99
37) Trichloroethene	9.354	130	108099	19.382	ug/l	94
38) Methylcyclohexane	9.607	83	191093	20.799	ug/l	96
39) 1,2-Dichloropropane	9.624	63	128141	22.040	ug/l	96
40) Dibromomethane	9.713	93	78551	21.207	ug/l	98
41) Bromodichloromethane	9.889	83	163110	21.487	ug/l	99
42) Vinyl Acetate	6.613	43	1256224	119.672	ug/l	99

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Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
43) Ethyl Acetate	7.566	43	152469	22.438	ug/l	100
44) Isopropyl Acetate	8.695	43	253488	23.013	ug/l	96
45) 1,4-Dioxane	9.695	88	40999	442.443	ug/l #	88
46) Methyl methacrylate	9.683	41	125081	23.318	ug/l	92
47) n-amyl Acetate	12.495	43	213984	23.871	ug/l	93
48) t-1,3-Dichloropropene	10.836	75	167024	21.968	ug/l	98
49) cis-1,3-Dichloropropene	10.313	75	189121	21.900	ug/l	91
50) 1,1,2-Trichloroethane	11.018	97	111337	20.518	ug/l	96
51) Ethyl methacrylate	10.877	69	169296	21.163	ug/l	96
52) 1,3-Dichloropropane	11.166	76	199684	21.305	ug/l	100
53) Dibromochloromethane	11.360	129	115632	20.888	ug/l	98
54) 1,2-Dibromoethane	11.471	107	108367	20.695	ug/l	97
55) 2-Chloroethyl vinyl ether	10.166	63	372533	132.819	ug/l	99
56) Bromoform	12.583	173	74171	20.027	ug/l	98
58) 4-Methyl-2-Pentanone	10.448	43	803516	114.167	ug/l	94
59) 2-Hexanone	11.195	43	613986	122.805	ug/l	94
61) Tetrachloroethene	11.107	164	85171	15.486	ug/l	91
62) Toluene	10.630	91	507526	21.141	ug/l	100
64) Chlorobenzene	11.895	112	289603	20.494	ug/l	98
65) 1,1,1,2-Tetrachloroethane	11.965	131	108278	20.400	ug/l	97
66) Ethyl Benzene	11.965	91	547731	21.015	ug/l	99
67) m/p-Xylenes	12.071	106	416560	42.193	ug/l	92
68) o-Xylene	12.401	106	200759	20.828	ug/l	95
69) Styrene	12.413	104	327257	20.934	ug/l	98
70) Isopropylbenzene	12.701	105	525572	20.956	ug/l	97
71) 1,1,2,2-Tetrachloroethane	12.942	83	167689	22.176	ug/l	98
72) 1,2,3-Trichloropropane	12.995	75	149006m	21.480	ug/l	
73) Bromobenzene	12.983	156	112708	19.915	ug/l	89
74) n-propylbenzene	13.036	91	620549	20.962	ug/l	100
75) 2-Chlorotoluene	13.130	91	383181	20.931	ug/l	96
76) 1,3,5-Trimethylbenzene	13.177	105	449196	20.693	ug/l	94
77) t-1,4-Dichloro-2-butene	12.736	75	49673	23.458	ug/l	99
78) 4-Chlorotoluene	13.224	91	366644	20.776	ug/l	94
79) tert-butylbenzene	13.442	119	370430	20.406	ug/l	94
80) 1,2,4-Trimethylbenzene	13.483	105	446416	20.926	ug/l	94
81) sec-Butylbenzene	13.618	105	534420	20.576	ug/l	99
82) p-Isopropyltoluene	13.730	119	434447	20.696	ug/l	97
83) 1,3-Dichlorobenzene	13.736	146	213558	20.394	ug/l	97
84) 1,4-Dichlorobenzene	13.812	146	202201	19.879	ug/l	95
85) n-Butylbenzene	14.059	91	372209	20.919	ug/l	97
86) Hexachloroethane	14.336	117	80703	21.532	ug/l	99
87) 1,2-Dichlorobenzene	14.107	146	212127	20.314	ug/l	96
88) 1,2-Dibromo-3-Chloropr...	14.724	75	31435	21.343	ug/l	93
89) 1,2,4-Trichlorobenzene	15.395	180	102860	18.465	ug/l	98
90) Hexachlorobutadiene	15.506	225	53355	18.168	ug/l	96
91) Naphthalene	15.642	128	336837	19.065	ug/l	98
92) 1,2,3-Trichlorobenzene	15.842	180	103553	18.543	ug/l	97

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

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