

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN080823\
 Data File : VN078806.D
 Acq On : 08 Aug 2023 18:40
 Operator : JC\MD
 Sample : VSTDICCC020
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 17 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 VSTDICCC020

Manual Integrations
 APPROVED

Reviewed By : John Carlone 08/09/2023
 Supervised By : Semsettin Yesilyurt 08/09/2023

Quant Time: Aug 09 04:41:13 2023
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\624N080823W.M
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
 QLast Update : Wed Aug 09 04:37:34 2023
 Response via : Initial Calibration

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

Internal Standards						
1) Bromochloromethane	7.824	128	32248	30.000	ug/l	0.00
28) 1,4-Difluorobenzene	9.106	114	185975	30.000	ug/l	0.00
57) Chlorobenzene-d5	11.871	117	156856	30.000	ug/l	0.00
System Monitoring Compounds						
27) 1,2-Dichloroethane-d4	8.583	65	79883	32.252	ug/l	0.00
Spiked Amount 30.000	Range 91 - 110		Recovery = 107.500%			
60) 4-Bromofluorobenzene	12.853	95	69391	29.197	ug/l	0.00
Spiked Amount 30.000	Range 63 - 112		Recovery = 97.333%			
63) Toluene-d8	10.571	98	237195	30.203	ug/l	0.00
Spiked Amount 30.000	Range 91 - 112		Recovery = 100.667%			
Target Compounds						Qvalue
2) Dichlorodifluoromethane	2.136	85	47191	22.009	ug/l	98
3) Chloromethane	2.371	50	56042	21.899	ug/l	98
4) Vinyl Chloride	2.524	62	51065	15.601	ug/l #	86
5) Bromomethane	2.971	94	37743	15.369	ug/l	87
6) Chloroethane	3.130	64	36553	16.703	ug/l	97
7) Trichlorofluoromethane	3.507	101	74203	20.729	ug/l	91
8) Diethyl Ether	3.977	74	25763	21.662	ug/l	77
9) 1,1,2-Trichlorotrifluo...	4.377	101	39793	20.541	ug/l	91
10) 1,1-Dichloroethene	4.348	96	37546	20.464	ug/l	90
11) Methyl Iodide	4.606	142	50473	19.608	ug/l	93
12) Methyl Acetate	5.042	43	82925	25.806	ug/l	95
13) Acrolein	4.195	56	40428	120.806	ug/l	96
14) Acrylonitrile	5.730	53	110203	119.944	ug/l	96
15) Acetone	4.442	58	28047	108.176	ug/l	77
16) Carbon Disulfide	4.724	76	111045	21.237	ug/l #	94
17) Allyl chloride	5.036	41	60646	23.581	ug/l	91
18) Methylene Chloride	5.283	84	47269	21.186	ug/l #	91
19) trans-1,2-Dichloroethene	5.795	96	42756	20.086	ug/l	93
20) Diisopropyl ether	6.683	45	146795	24.629	ug/l #	93
21) 1,1-Dichloroethane	6.577	63	83556	21.850	ug/l	99
22) cis-1,2-Dichloroethene	7.489	96	49212m	22.899	ug/l	
23) tert-Butyl Alcohol	5.536	59	39298	108.207	ug/l #	100
24) Methyl tert-Butyl Ether	5.812	73	126258	20.428	ug/l	92
25) Chloroform	7.977	83	82652	20.761	ug/l	89
26) Cyclohexane	8.259	56	63808	22.807	ug/l #	98
29) 1,1-Dichloropropene	8.383	75	61681	21.685	ug/l	97
30) 2-Butanone	7.494	43	147386	125.723	ug/l	92
31) 2,2-Dichloropropane	7.494	77	63260	19.927	ug/l	97
32) 1,1,1-Trichloroethane	8.183	97	69151	19.784	ug/l	94
33) Carbon Tetrachloride	8.365	117	62426	19.973	ug/l	97
34) Benzene	8.612	78	182106	21.407	ug/l	95
35) Methacrylonitrile	7.789	41	34461	26.279	ug/l	85
36) 1,2-Dichloroethane	8.677	62	63887	21.497	ug/l	99
37) Trichloroethene	9.359	130	44449	19.029	ug/l	94
38) Methylcyclohexane	9.606	83	59023	20.334	ug/l	95
39) 1,2-Dichloropropane	9.624	63	49101	21.313	ug/l	89
40) Dibromomethane	9.712	93	31583	20.245	ug/l	98
41) Bromodichloromethane	9.894	83	66664	21.236	ug/l	98
42) Vinyl Acetate	6.618	43	469611	124.787	ug/l	95

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Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
43) Ethyl Acetate	7.577	43	67337m	27.286	ug/l	
44) Isopropyl Acetate	8.694	43	107010	25.258	ug/l #	66
45) 1,4-Dioxane	9.700	88	15982	422.840	ug/l #	80
46) Methyl methacrylate	9.688	41	46397	23.964	ug/l	91
47) n-amyl Acetate	12.500	43	79278	24.305	ug/l	95
48) t-1,3-Dichloropropene	10.841	75	66659	20.289	ug/l	96
49) cis-1,3-Dichloropropene	10.318	75	74589	20.938	ug/l #	90
50) 1,1,2-Trichloroethane	11.024	97	44160	20.349	ug/l	96
51) Ethyl methacrylate	10.883	69	60595	20.289	ug/l #	65
52) 1,3-Dichloropropane	11.171	76	75854	19.226	ug/l	99
53) Dibromochloromethane	11.365	129	44805	18.612	ug/l	97
54) 1,2-Dibromoethane	11.477	107	42686	19.726	ug/l	98
55) 2-Chloroethyl vinyl ether	10.165	63	112133	114.352	ug/l	97
56) Bromoform	12.582	173	28780	17.988	ug/l	97
58) 4-Methyl-2-Pentanone	10.453	43	315458	123.975	ug/l #	91
59) 2-Hexanone	11.200	43	221370	117.699	ug/l	91
61) Tetrachloroethene	11.112	164	36710	17.910	ug/l	96
62) Toluene	10.635	91	192478	20.064	ug/l	100
64) Chlorobenzene	11.900	112	111495	20.010	ug/l	96
65) 1,1,1,2-Tetrachloroethane	11.965	131	43056	19.736	ug/l	99
66) Ethyl Benzene	11.971	91	204995	21.081	ug/l	92
67) m/p-Xylenes	12.077	106	146780	39.958	ug/l	99
68) o-Xylene	12.406	106	74229	19.732	ug/l	98
69) Styrene	12.418	104	111990	18.611	ug/l	97
70) Isopropylbenzene	12.700	105	180232	19.479	ug/l	98
71) 1,1,2,2-Tetrachloroethane	12.941	83	61793	20.305	ug/l	99
72) 1,2,3-Trichloropropane	13.000	75	50933m	20.557	ug/l	
73) Bromobenzene	12.982	156	42693	18.949	ug/l	97
74) n-propylbenzene	13.041	91	204759	19.793	ug/l	99
75) 2-Chlorotoluene	13.129	91	127452	17.924	ug/l	97
76) 1,3,5-Trimethylbenzene	13.176	105	148955	18.013	ug/l	97
77) t-1,4-Dichloro-2-butene	12.741	75	17182	19.427	ug/l	78
78) 4-Chlorotoluene	13.229	91	119075	17.569	ug/l	97
79) tert-butylbenzene	13.441	119	123189	17.385	ug/l	98
80) 1,2,4-Trimethylbenzene	13.488	105	140130	17.861	ug/l	99
81) sec-Butylbenzene	13.624	105	164005	17.886	ug/l	100
82) p-Isopropyltoluene	13.735	119	127838	17.289	ug/l	99
83) 1,3-Dichlorobenzene	13.735	146	69911	17.601	ug/l	99
84) 1,4-Dichlorobenzene	13.818	146	65844	17.671	ug/l	99
85) n-Butylbenzene	14.059	91	92573	17.978	ug/l	98
86) Hexachloroethane	14.341	117	26063	19.046	ug/l	90
87) 1,2-Dichlorobenzene	14.112	146	68778	18.383	ug/l	96
88) 1,2-Dibromo-3-Chloropr...	14.723	75	8617	17.075	ug/l	98
89) 1,2,4-Trichlorobenzene	15.400	180	19027	17.981	ug/l	97
90) Hexachlorobutadiene	15.506	225	14045	17.647	ug/l	95
91) Naphthalene	15.647	128	58324	18.200	ug/l	97
92) 1,2,3-Trichlorobenzene	15.847	180	22358	18.530	ug/l	84

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

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