

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN121321\
 Data File : VN070031.D
 Acq On : 13 Dec 2021 13:46
 Operator : JC/MD
 Sample : VSTDICV020
 Misc : 5.00mL/MSVOA_N/WATER
 ALS Vial : 8 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 ICSVN121321

Quant Time: Dec 14 05:26:26 2021
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\624N121321W.M
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
 QLast Update : Tue Dec 14 00:59:04 2021
 Response via : Initial Calibration

Manual Integrations APPROVED

Reviewed By : John Carlone 12/14/2021
 Supervised By : Amit Patel 12/15/2021

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

Internal Standards						
1) Bromochloromethane	7.656	128	185752	30.000	ug/l	0.00
28) 1,4-Difluorobenzene	8.968	114	1029211	30.000	ug/l	# 0.00
57) Chlorobenzene-d5	11.744	117	931764	30.000	ug/l	0.00
System Monitoring Compounds						
27) 1,2-Dichloroethane-d4	8.437	65	493511	29.980	ug/l	0.00
Spiked Amount 30.000	Range 91 - 110		Recovery =	99.933%		
60) 4-Bromofluorobenzene	12.731	95	456227	29.757	ug/l	0.00
Spiked Amount 30.000	Range 63 - 112		Recovery =	99.200%		
63) Toluene-d8	10.440	98	1306181	30.335	ug/l	0.00
Spiked Amount 30.000	Range 91 - 112		Recovery =	101.133%		
Target Compounds						
					Qvalue	
2) Dichlorodifluoromethane	2.075	85	274523	20.365	ug/l	99
3) Chloromethane	2.306	50	310712	20.124	ug/l	94
4) Vinyl Chloride	2.451	62	287210	19.769	ug/l	100
5) Bromomethane	2.874	94	163465	20.583	ug/l	100
6) Chloroethane	3.027	64	164797	19.756	ug/l	98
7) Trichlorofluoromethane	3.381	101	370056	19.510	ug/l	97
8) Diethyl Ether	3.824	74	142653	18.955	ug/l	75
9) 1,1,2-Trichlorotrifluo...	4.213	101	219527	19.705	ug/l	# 70
10) 1,1-Dichloroethene	4.183	96	204365	19.285	ug/l	84
11) Methyl Iodide	4.422	142	263385	17.762	ug/l	99
12) Methyl Acetate	4.856	43	488796	18.726	ug/l	# 88
13) Acrolein	4.044	56	190778	90.292	ug/l	98
14) Acrylonitrile	5.554	53	684308	90.796	ug/l	99
15) Acetone	4.285	58	227054	83.023	ug/l	80
16) Carbon Disulfide	4.529	76	633886	19.852	ug/l	97
17) Allyl chloride	4.840	41	454082	19.053	ug/l	89
18) Methylene Chloride	5.095	84	248518	19.455	ug/l	# 85
19) trans-1,2-Dichloroethene	5.599	96	222300	19.750	ug/l	# 84
20) Diisopropyl ether	6.495	45	882088	19.325	ug/l	# 95
21) 1,1-Dichloroethane	6.388	63	458999	19.076	ug/l	98
22) cis-1,2-Dichloroethene	7.324	96	254477	19.102	ug/l	90
23) tert-Butyl Alcohol	5.371	59	202256	84.893	ug/l	# 100
24) Methyl tert-Butyl Ether	5.615	73	725977	19.292	ug/l	95
25) Chloroform	7.817	83	456585	19.099	ug/l	100
26) Cyclohexane	8.094	56	426018	19.127	ug/l	# 85
29) 1,1-Dichloropropene	8.220	75	342500	19.327	ug/l	95
30) 2-Butanone	7.335	43	1043778	85.608	ug/l	# 91
31) 2,2-Dichloropropane	7.324	77	354257	19.116	ug/l	97
32) 1,1,1-Trichloroethane	8.013	97	389562	18.981	ug/l	94
33) Carbon Tetrachloride	8.206	117	349933	19.181	ug/l	100
34) Benzene	8.458	78	994335	18.979	ug/l	# 94
35) Methacrylonitrile	7.638	41	203684	18.060	ug/l	88
36) 1,2-Dichloroethane	8.528	62	397170	19.204	ug/l	98
37) Trichloroethene	9.215	130	237966	19.096	ug/l	92
38) Methylcyclohexane	9.459	83	400405	19.008	ug/l	88
39) 1,2-Dichloropropane	9.488	63	263659	18.876	ug/l	100
40) Dibromomethane	9.577	93	175750	19.075	ug/l	96
41) Bromodichloromethane	9.759	83	367036	18.839	ug/l	94
42) Vinyl Acetate	6.433	43	3407571	95.141	ug/l	# 94

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Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
43) Ethyl Acetate	7.412	43	395238	18.663	ug/l	100
44) Isopropyl Acetate	8.560	43	627013	18.394	ug/l	96
45) 1,4-Dioxane	9.566	88	94164	390.353	ug/l #	83
46) Methyl methacrylate	9.558	41	290793	18.012	ug/l	80
47) n-amyl Acetate	12.387	43	420009	17.668	ug/l	100
48) t-1,3-Dichloropropene	10.719	75	354764	18.105	ug/l	99
49) cis-1,3-Dichloropropene	10.188	75	397428	18.689	ug/l	92
50) 1,1,2-Trichloroethane	10.896	97	234189	18.700	ug/l	96
51) Ethyl methacrylate	10.759	69	364171	18.194	ug/l	89
52) 1,3-Dichloropropane	11.044	76	411895	18.575	ug/l	98
53) Dibromochloromethane	11.237	129	258564	18.380	ug/l	98
54) 1,2-Dibromoethane	11.344	107	237715	18.630	ug/l	98
55) 2-Chloroethyl vinyl ether	10.041	63	327476	83.456	ug/l	96
56) Bromoform	12.457	173	192721	17.993	ug/l #	100
58) 4-Methyl-2-Pentanone	10.330	43	2000320	93.534	ug/l #	93
59) 2-Hexanone	11.084	43	1433824	90.688	ug/l	94
61) Tetrachloroethene	10.977	164	209266	19.229	ug/l	96
62) Toluene	10.505	91	1055761	19.267	ug/l	98
64) Chlorobenzene	11.768	112	624281	19.196	ug/l	100
65) 1,1,1,2-Tetrachloroethane	11.840	131	233801	19.087	ug/l	100
66) Ethyl Benzene	11.843	91	1157821	19.005	ug/l	100
67) m/p-Xylenes	11.953	106	855818	38.451	ug/l	94
68) o-Xylene	12.280	106	415729	18.878	ug/l	94
69) Styrene	12.294	104	678408	18.900	ug/l	97
70) Isopropylbenzene	12.578	105	1106181	19.145	ug/l	98
71) 1,1,2,2-Tetrachloroethane	12.825	83	358637	18.925	ug/l	98
72) 1,2,3-Trichloropropane	12.878	75	295822m	16.775	ug/l	
73) Bromobenzene	12.859	156	256867	19.156	ug/l	93
74) n-propylbenzene	12.918	91	1283094	19.159	ug/l	98
75) 2-Chlorotoluene	13.007	91	782446	19.093	ug/l	95
76) 1,3,5-Trimethylbenzene	13.058	105	903013	19.022	ug/l	99
77) t-1,4-Dichloro-2-butene	12.626	75	97817	17.640	ug/l	90
78) 4-Chlorotoluene	13.103	91	749649	19.075	ug/l	94
79) tert-butylbenzene	13.323	119	768151	18.645	ug/l	99
80) 1,2,4-Trimethylbenzene	13.369	105	881562m	19.204	ug/l	
81) sec-Butylbenzene	13.500	105	1079250	18.773	ug/l	100
82) p-Isopropyltoluene	13.616	119	859944	18.776	ug/l	100
83) 1,3-Dichlorobenzene	13.616	146	440219	19.411	ug/l	99
84) 1,4-Dichlorobenzene	13.694	146	421912	19.341	ug/l	99
85) n-Butylbenzene	13.943	91	696582	18.204	ug/l	99
86) Hexachloroethane	14.211	117	164802	18.036	ug/l	87
87) 1,2-Dichlorobenzene	13.989	146	424895	19.502	ug/l	99
88) 1,2-Dibromo-3-Chloropr...	14.605	75	68148	18.799	ug/l	94
89) 1,2,4-Trichlorobenzene	15.262	180	197363	19.472	ug/l	99
90) Hexachlorobutadiene	15.367	225	124110	20.574	ug/l	99
91) Naphthalene	15.507	128	528525	22.136	ug/l	99
92) 1,2,3-Trichlorobenzene	15.700	180	195997	20.467	ug/l	99

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

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