

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN112221\
 Data File : VN069619.D
 Acq On : 22 Nov 2021 19:10
 Operator : JC/MD
 Sample : VSTDCCC020
 Misc : 5.00mL/MSVOA_N/WATER
 ALS Vial : 19 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 VSTDCCC020EC

Quant Time: Nov 23 03:54:39 2021
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\624N111021W.M
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
 QLast Update : Wed Nov 10 14:36:17 2021
 Response via : Initial Calibration

Manual Integrations APPROVED

Reviewed By :John
 Carlone
 11/23/2021
 Supervised By :Mahesh
 Dadoda
 11/23/2021

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

Internal Standards						
1) Bromochloromethane	7.659	128	166621	30.000	ug/l	0.00
28) 1,4-Difluorobenzene	8.968	114	940847	30.000	ug/l	0.00
57) Chlorobenzene-d5	11.744	117	852250	30.000	ug/l	0.00
System Monitoring Compounds						
27) 1,2-Dichloroethane-d4	8.437	65	456767	31.609	ug/l	0.00
Spiked Amount 30.000	Range 91 - 110		Recovery = 105.367%			
60) 4-Bromofluorobenzene	12.731	95	392367	28.769	ug/l	0.00
Spiked Amount 30.000	Range 63 - 112		Recovery = 95.900%			
63) Toluene-d8	10.443	98	1221790	31.049	ug/l	0.00
Spiked Amount 30.000	Range 91 - 112		Recovery = 103.500%			
Target Compounds						Qvalue
2) Dichlorodifluoromethane	2.075	85	255348	20.739	ug/l	99
3) Chloromethane	2.306	50	276640	21.550	ug/l	95
4) Vinyl Chloride	2.448	62	265686	20.411	ug/l	99
5) Bromomethane	2.867	94	153520	18.415	ug/l	98
6) Chloroethane	3.025	64	159173	19.382	ug/l	99
7) Trichlorofluoromethane	3.379	101	352631	18.483	ug/l	100
8) Diethyl Ether	3.824	74	124074	20.602	ug/l	79
9) 1,1,2-Trichlorotrifluo...	4.210	101	183422m	20.776	ug/l	
10) 1,1-Dichloroethene	4.181	96	170604	20.489	ug/l	88
11) Methyl Iodide	4.425	142	239761	20.667	ug/l	98
12) Methyl Acetate	4.859	43	499515	20.830	ug/l #	88
13) Acrolein	4.044	56	74155	112.473	ug/l	100
14) Acrylonitrile	5.559	53	680209	103.971	ug/l	100
15) Acetone	4.291	58	179327	82.261	ug/l	77
16) Carbon Disulfide	4.529	76	384412	18.470	ug/l	100
17) Allyl chloride	4.843	41	352788	19.934	ug/l	92
18) Methylene Chloride	5.098	84	214318	20.204	ug/l #	85
19) trans-1,2-Dichloroethene	5.600	96	185437	20.294	ug/l #	83
20) Diisopropyl ether	6.498	45	776100	20.466	ug/l #	94
21) 1,1-Dichloroethane	6.391	63	400316	20.808	ug/l	99
22) cis-1,2-Dichloroethene	7.327	96	226341	19.972	ug/l	94
23) tert-Butyl Alcohol	5.380	59	218815m	96.102	ug/l	
24) Methyl tert-Butyl Ether	5.618	73	666589	19.975	ug/l	95
25) Chloroform	7.818	83	457231	22.986	ug/l	99
26) Cyclohexane	8.094	56	363185	19.884	ug/l #	86
29) 1,1-Dichloropropene	8.225	75	286920	19.978	ug/l	96
30) 2-Butanone	7.340	43	1013191	97.463	ug/l	91
31) 2,2-Dichloropropane	7.329	77	272094	17.921	ug/l	99
32) 1,1,1-Trichloroethane	8.016	97	339494	20.248	ug/l	95
33) Carbon Tetrachloride	8.206	117	275450	19.891	ug/l	99
34) Benzene	8.461	78	903309	20.682	ug/l #	95
35) Methacrylonitrile	7.638	41	188958	19.818	ug/l	88
36) 1,2-Dichloroethane	8.531	62	355990	21.142	ug/l	99
37) Trichloroethene	9.218	130	209672	19.871	ug/l	93
38) Methylcyclohexane	9.462	83	335835	18.900	ug/l	88
39) 1,2-Dichloropropane	9.491	63	242894	20.998	ug/l	99
40) Dibromomethane	9.580	93	155437	20.064	ug/l	96
41) Bromodichloromethane	9.762	83	292253	20.099	ug/l	97
42) Vinyl Acetate	6.439	43	2952278m	100.492	ug/l	

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Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
43) Ethyl Acetate	7.415	43	392314	20.364	ug/l	97
44) Isopropyl Acetate	8.563	43	609195	20.283	ug/l	95
45) 1,4-Dioxane	9.569	88	92403	378.994	ug/l	88
46) Methyl methacrylate	9.561	41	273756	19.790	ug/l	85
47) n-amyl Acetate	12.390	43	355827	15.428	ug/l	98
48) t-1,3-Dichloropropene	10.719	75	274186	17.570	ug/l	98
49) cis-1,3-Dichloropropene	10.191	75	317910	18.722	ug/l	94
50) 1,1,2-Trichloroethane	10.899	97	217053	19.730	ug/l	95
51) Ethyl methacrylate	10.762	69	337868	18.318	ug/l	91
52) 1,3-Dichloropropane	11.044	76	385199	20.271	ug/l	100
53) Dibromochloromethane	11.240	129	198478	18.880	ug/l	99
54) 1,2-Dibromoethane	11.347	107	222063	19.491	ug/l	99
55) 2-Chloroethyl vinyl ether	10.044	63	417765	99.577	ug/l	97
56) Bromoform	12.460	173	130407	17.299	ug/l #	100
58) 4-Methyl-2-Pentanone	10.331	43	2021321	108.048	ug/l #	94
59) 2-Hexanone	11.087	43	1369611	96.247	ug/l	95
61) Tetrachloroethene	10.980	164	190569	20.834	ug/l	95
62) Toluene	10.505	91	964648	20.598	ug/l	100
64) Chlorobenzene	11.771	112	553794	19.710	ug/l	99
65) 1,1,1,2-Tetrachloroethane	11.841	131	202966	20.518	ug/l	99
66) Ethyl Benzene	11.846	91	1025283	19.779	ug/l	100
67) m/p-Xylenes	11.953	106	753064	39.113	ug/l	96
68) o-Xylene	12.280	106	374995	19.452	ug/l	97
69) Styrene	12.294	104	581887	18.618	ug/l	97
70) Isopropylbenzene	12.578	105	974226	19.324	ug/l	99
71) 1,1,2,2-Tetrachloroethane	12.827	83	339328	20.397	ug/l	98
72) 1,2,3-Trichloropropane	12.881	75	295320m	18.223	ug/l	
73) Bromobenzene	12.862	156	223661	19.245	ug/l	93
74) n-propylbenzene	12.921	91	1073093	18.533	ug/l	97
75) 2-Chlorotoluene	13.007	91	669410	18.992	ug/l	97
76) 1,3,5-Trimethylbenzene	13.061	105	797304	19.268	ug/l	99
77) t-1,4-Dichloro-2-butene	12.624	75	67532	15.437	ug/l	77
78) 4-Chlorotoluene	13.106	91	623167	18.462	ug/l	94
79) tert-butylbenzene	13.324	119	683801	18.785	ug/l	99
80) 1,2,4-Trimethylbenzene	13.369	105	757497m	18.766	ug/l	
81) sec-Butylbenzene	13.503	105	920819	18.080	ug/l	100
82) p-Isopropyltoluene	13.616	119	721446	17.753	ug/l	100
83) 1,3-Dichlorobenzene	13.616	146	361792	18.208	ug/l	99
84) 1,4-Dichlorobenzene	13.696	146	339657	17.620	ug/l	98
85) n-Butylbenzene	13.943	91	526285	15.517	ug/l	99
86) Hexachloroethane	14.211	117	119808	17.814	ug/l	92
87) 1,2-Dichlorobenzene	13.989	146	359331	18.738	ug/l	98
88) 1,2-Dibromo-3-Chloropr...	14.606	75	53021	18.206	ug/l	98
89) 1,2,4-Trichlorobenzene	15.265	180	133880	14.560	ug/l	96
90) Hexachlorobutadiene	15.370	225	97962	19.701	ug/l	100
91) Naphthalene	15.507	128	315753	11.921	ug/l	99
92) 1,2,3-Trichlorobenzene	15.700	180	131716	14.572	ug/l	98

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

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