

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN042321\
 Data File : VN066730.D
 Acq On : 23 Apr 2021 11:03
 Operator : JC/MD
 Sample : VSTDCCC020
 Misc : 5.00mL/MSVOA_N/WATER
 ALS Vial : 2 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 VSTDCCC020

Manual Integrations
 APPROVED

MMDadoda
 4/26/2021 4:54:27 PM

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Quant Time: Apr 26 03:19:11 2021
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\624N042021W.M
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
 QLast Update : Wed Apr 21 16:55:39 2021
 Response via : Initial Calibration

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

Internal Standards						
1) Bromochloromethane	7.108	128	52333	30.00	ug/l	0.00
28) 1,4-Difluorobenzene	8.516	114	274450	30.00	ug/l	0.00
57) Chlorobenzene-d5	11.348	117	250630	30.00	ug/l	0.00
System Monitoring Compounds						
27) 1,2-Dichloroethane-d4	7.950	65	107433	28.49	ug/l	0.00
Spiked Amount 30.000	Range 91 - 110		Recovery =	94.97%		
60) 4-Bromofluorobenzene	12.343	95	116340	29.62	ug/l	0.00
Spiked Amount 30.000	Range 63 - 112		Recovery =	98.73%		
63) Toluene-d8	10.026	98	358508	31.09	ug/l	0.00
Spiked Amount 30.000	Range 91 - 112		Recovery =	103.63%		
Target Compounds						Qvalue
2) Dichlorodifluoromethane	1.838	85	55083	21.37	ug/l	96
3) Chloromethane	2.037	50	81215	20.26	ug/l	99
4) Vinyl Chloride	2.165	62	77634	20.32	ug/l	99
5) Bromomethane	2.527	94	48279	21.49	ug/l	97
6) Chloroethane	2.664	64	48619	20.85	ug/l	98
7) Trichlorofluoromethane	2.975	101	92368	21.70	ug/l	100
8) Diethyl Ether	3.359	74	37861	20.04	ug/l	93
9) 1,1,2-Trichlorotrifluo...	3.699	101	58584	21.71	ug/l	97
10) 1,1-Dichloroethene	3.678	96	55810	20.52	ug/l	96
11) Methyl Iodide	3.887	142	80936	19.65	ug/l	95
12) Methyl Acetate	4.249	43	66974	18.06	ug/l	99
13) Acrolein	3.549	56	40810	77.82	ug/l	95
14) Acrylonitrile	4.893	53	152449	93.57	ug/l	98
15) Acetone	3.750	58	63973	149.59	ug/l	80
16) Carbon Disulfide	3.986	76	168435	20.08	ug/l	100
17) Allyl chloride	4.249	41	107541	19.95	ug/l	90
18) Methylene Chloride	4.472	84	71941	20.67	ug/l	96
19) trans-1,2-Dichloroethene	4.952	96	64253	20.86	ug/l	98
20) Diisopropyl ether	5.861	45	231293	20.39	ug/l	98
21) 1,1-Dichloroethane	5.759	63	126291	20.72	ug/l	100
22) cis-1,2-Dichloroethene	6.741	96	73838	20.67	ug/l	99
23) tert-Butyl Alcohol	4.694	59	45528	82.09	ug/l #	100
24) Methyl tert-Butyl Ether	4.952	73	190746	20.11	ug/l	93
25) Chloroform	7.288	83	121751	20.85	ug/l	95
26) Cyclohexane	7.575	56	105270	20.08	ug/l #	98
29) 1,1-Dichloropropene	7.714	75	88769	20.54	ug/l	98
30) 2-Butanone	6.743	43	221595	106.22	ug/l	99
31) 2,2-Dichloropropane	6.730	77	104329	20.95	ug/l	97
32) 1,1,1-Trichloroethane	7.489	97	100710	20.64	ug/l	99
33) Carbon Tetrachloride	7.696	117	85920	20.85	ug/l	98
34) Benzene	7.966	78	288708	20.73	ug/l	96
35) Methacrylonitrile	7.087	41	35011	17.43	ug/l	97
36) 1,2-Dichloroethane	8.050	62	90518	19.80	ug/l	98
37) Trichloroethene	8.766	130	70798	21.38	ug/l	96
38) Methylcyclohexane	9.012	83	104601	20.30	ug/l	97
39) 1,2-Dichloropropane	9.050	63	78663	20.69	ug/l	99
40) Dibromomethane	9.141	93	45581	20.00	ug/l	98
41) Bromodichloromethane	9.337	83	96823	20.23	ug/l	96
42) Vinyl Acetate	5.802	43	896373	95.86	ug/l	100

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Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
43) Ethyl Acetate	6.837	43	78968	17.21	ug/l #	80
44) Isopropyl Acetate	8.090	43	138258	18.07	ug/l	98
45) 1,4-Dioxane	9.133	88	18061	324.37	ug/l	97
46) Methyl methacrylate	9.133	41	60519	17.31	ug/l	91
47) n-amyl Acetate	12.030	43	33556	7.94	ug/l	96
48) t-1,3-Dichloropropene	10.321	75	100798	19.28	ug/l	98
49) cis-1,3-Dichloropropene	9.774	75	117256	20.29	ug/l #	89
50) 1,1,2-Trichloroethane	10.498	97	68593	20.46	ug/l	99
51) Ethyl methacrylate	10.369	69	85075	17.97	ug/l	90
52) 1,3-Dichloropropane	10.646	76	112243	19.67	ug/l	100
53) Dibromochloromethane	10.841	129	72544	20.02	ug/l	99
54) 1,2-Dibromoethane	10.943	107	66389	19.75	ug/l	99
55) 2-Chloroethyl vinyl ether	9.632	63	77769	107.43	ug/l	99
56) Bromoform	12.073	173	48863	18.70	ug/l #	100
58) 4-Methyl-2-Pentanone	9.919	43	400998	93.94	ug/l	99
59) 2-Hexanone	10.691	43	264312	96.32	ug/l	97
61) Tetrachloroethene	10.571	164	64937	23.47	ug/l	99
62) Toluene	10.091	91	302543	21.27	ug/l	100
64) Chlorobenzene	11.373	112	182852	21.49	ug/l	100
65) 1,1,1,2-Tetrachloroethane	11.448	131	69428	21.73	ug/l	98
66) Ethyl Benzene	11.453	91	315697	20.77	ug/l	99
67) m/p-Xylenes	11.563	106	238503	41.79	ug/l	100
68) o-Xylene	11.890	106	113624	20.54	ug/l	99
69) Styrene	11.909	104	178675	20.08	ug/l	98
70) Isopropylbenzene	12.191	105	304139	21.04	ug/l	99
71) 1,1,2,2-Tetrachloroethane	12.445	83	92873	19.46	ug/l	98
72) 1,2,3-Trichloropropane	12.496	75	79637m	19.17	ug/l	
73) Bromobenzene	12.467	156	75957	20.78	ug/l	98
74) n-propylbenzene	12.534	91	343950	20.50	ug/l	99
75) 2-Chlorotoluene	12.617	91	209044	20.81	ug/l	100
76) 1,3,5-Trimethylbenzene	12.676	105	253346	20.72	ug/l	99
77) t-1,4-Dichloro-2-butene	12.247	75	22323	17.01	ug/l	90
78) 4-Chlorotoluene	12.716	91	201725	20.49	ug/l	97
79) tert-butylbenzene	12.936	119	219939	21.49	ug/l	97
80) 1,2,4-Trimethylbenzene	12.982	105	244155	20.82	ug/l	99
81) sec-Butylbenzene	13.113	105	288111	21.15	ug/l	100
82) p-Isopropyltoluene	13.231	119	244475	20.98	ug/l	99
83) 1,3-Dichlorobenzene	13.226	146	131503	21.66	ug/l	99
84) 1,4-Dichlorobenzene	13.306	146	124871	21.30	ug/l	99
85) n-Butylbenzene	13.558	91	187354	19.34	ug/l	99
86) Hexachloroethane	13.813	117	49446	20.16	ug/l	96
87) 1,2-Dichlorobenzene	13.596	146	129084	21.65	ug/l	98
88) 1,2-Dibromo-3-Chloropr...	14.218	75	13684	16.69	ug/l	98
89) 1,2,4-Trichlorobenzene	14.851	180	71398	20.72	ug/l	97
90) Hexachlorobutadiene	14.945	225	43248	22.40	ug/l	99
91) Naphthalene	15.071	128	140615	16.97	ug/l	100
92) 1,2,3-Trichlorobenzene	15.251	180	65464	20.09	ug/l	99

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

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