

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN092521\
 Data File : VN068697.D
 Acq On : 26 Sep 2021 5:44
 Operator : JC/MD
 Sample : VSTDCCC020
 Misc : 5.00mL/MSVOA_N/WATER
 ALS Vial : 44 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 VSTDCCC020EC

Manual Integrations
 APPROVED

MMDadoda
 9/27/2021 11:01:44 AM

Quant Time: Sep 27 07:25:21 2021
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\624N092521W.M
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
 QLast Update : Mon Sep 27 07:10:18 2021
 Response via : Initial Calibration

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

Internal Standards						
1) Bromochloromethane	7.657	128	72298	30.000	ug/l	0.00
28) 1,4-Difluorobenzene	8.968	114	521780	30.000	ug/l	0.00
57) Chlorobenzene-d5	11.747	117	376207	30.000	ug/l	0.00
System Monitoring Compounds						
27) 1,2-Dichloroethane-d4	8.437	65	186268	31.338	ug/l	0.00
Spiked Amount 30.000	Range 91 - 110		Recovery = 104.467%			
60) 4-Bromofluorobenzene	12.731	95	261347	45.477	ug/l	0.00
Spiked Amount 30.000	Range 63 - 112		Recovery = 151.600%#			
63) Toluene-d8	10.443	98	551705	33.136	ug/l	0.00
Spiked Amount 30.000	Range 91 - 112		Recovery = 110.467%			
Target Compounds					Qvalue	
2) Dichlorodifluoromethane	2.073	85	86668	21.676	ug/l	97
3) Chloromethane	2.301	50	108513	20.496	ug/l	95
4) Vinyl Chloride	2.443	62	126734	20.828	ug/l	98
5) Bromomethane	2.861	94	85283	21.476	ug/l	98
6) Chloroethane	3.022	64	95839	22.960	ug/l	99
7) Trichlorofluoromethane	3.376	101	149396	20.682	ug/l	97
8) Diethyl Ether	3.829	74	53701	20.650	ug/l	97
9) 1,1,2-Trichlorotrifluo...	4.216	101	79858	20.425	ug/l	99
10) 1,1-Dichloroethene	4.186	96	77606	20.629	ug/l	98
11) Methyl Iodide	4.427	142	92189	19.244	ug/l	98
12) Methyl Acetate	4.859	43	156402	19.316	ug/l	99
13) Acrolein	4.044	56	22529	90.454	ug/l #	24
14) Acrylonitrile	5.554	53	233219	98.143	ug/l	100
15) Acetone	4.285	58	59581	101.393	ug/l	94
16) Carbon Disulfide	4.537	76	219026	19.685	ug/l	99
17) Allyl chloride	4.846	41	142270	19.410	ug/l	97
18) Methylene Chloride	5.103	84	94086	20.481	ug/l	98
19) trans-1,2-Dichloroethene	5.602	96	84601	20.282	ug/l	97
20) Diisopropyl ether	6.495	45	313596	19.842	ug/l	97
21) 1,1-Dichloroethane	6.391	63	169883	20.094	ug/l	99
22) cis-1,2-Dichloroethene	7.327	96	98313	19.968	ug/l	97
23) tert-Butyl Alcohol	5.363	59	79080	99.270	ug/l #	100
24) Methyl tert-Butyl Ether	5.618	73	285739	20.193	ug/l	98
25) Chloroform	7.817	83	180685	20.379	ug/l	98
26) Cyclohexane	8.096	56	154011	18.732	ug/l #	98
29) 1,1-Dichloropropene	8.222	75	132691	15.089	ug/l	99
30) 2-Butanone	7.335	43	330731	74.545	ug/l	100
31) 2,2-Dichloropropane	7.327	77	94404	12.831	ug/l	99
32) 1,1,1-Trichloroethane	8.024	97	168422	15.616	ug/l	98
33) Carbon Tetrachloride	8.204	117	144758	15.433	ug/l	96
34) Benzene	8.458	78	389831	15.140	ug/l	96
35) Methacrylonitrile	7.643	41	77048	16.105	ug/l	96
36) 1,2-Dichloroethane	8.534	62	154915m	15.517	ug/l	
37) Trichloroethene	9.217	130	111346	17.609	ug/l	95
38) Methylcyclohexane	9.461	83	164599	16.218	ug/l	98
39) 1,2-Dichloropropane	9.491	63	112354	16.579	ug/l	98
40) Dibromomethane	9.579	93	72580	14.973	ug/l	99
41) Bromodichloromethane	9.765	83	141751	14.514	ug/l	99
42) Vinyl Acetate	6.434	43	1205879	74.787	ug/l	100

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Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
43) Ethyl Acetate	7.412	43	134370	13.727	ug/l	98
44) Isopropyl Acetate	8.560	43	241001	14.142	ug/l	97
45) 1,4-Dioxane	9.566	88	34016	309.524	ug/l	97
46) Methyl methacrylate	9.561	41	110017	14.081	ug/l	97
47) n-amyl Acetate	12.388	43	206455	13.362	ug/l	98
48) t-1,3-Dichloropropene	10.719	75	146462	12.366	ug/l	97
49) cis-1,3-Dichloropropene	10.191	75	149140	12.438	ug/l	95
50) 1,1,2-Trichloroethane	10.899	97	95560	12.095	ug/l	98
51) Ethyl methacrylate	10.762	69	156579	11.834	ug/l	98
52) 1,3-Dichloropropane	11.047	76	169438	12.362	ug/l	99
53) Dibromochloromethane	11.240	129	108945	12.702	ug/l	98
54) 1,2-Dibromoethane	11.347	107	127878	15.722	ug/l	98
55) 2-Chloroethyl vinyl ether	10.043	63	253253	85.769	ug/l	99
56) Bromoform	12.457	173	73878	12.818	ug/l #	98
58) 4-Methyl-2-Pentanone	10.330	43	775493	105.671	ug/l	99
59) 2-Hexanone	11.084	43	541521	96.558	ug/l	99
61) Tetrachloroethene	10.980	164	107990	24.688	ug/l	97
62) Toluene	10.507	91	436332	21.240	ug/l	99
64) Chlorobenzene	11.771	112	264095	20.062	ug/l	98
65) 1,1,1,2-Tetrachloroethane	11.840	131	102447	20.801	ug/l	98
66) Ethyl Benzene	11.846	91	486022	20.425	ug/l	97
67) m/p-Xylenes	11.953	106	363901	40.749	ug/l	96
68) o-Xylene	12.283	106	179508	20.733	ug/l	97
69) Styrene	12.296	104	290293	20.913	ug/l	99
70) Isopropylbenzene	12.581	105	659897	29.844	ug/l	99
71) 1,1,2,2-Tetrachloroethane	12.827	83	196955	29.538	ug/l	98
72) 1,2,3-Trichloropropane	12.881	75	194148m	31.262	ug/l	
73) Bromobenzene	12.862	156	148155	29.849	ug/l	96
74) n-propylbenzene	12.921	91	760224	30.294	ug/l	99
75) 2-Chlorotoluene	13.010	91	463726	30.759	ug/l	98
76) 1,3,5-Trimethylbenzene	13.061	105	543002	30.612	ug/l	100
77) t-1,4-Dichloro-2-butene	12.629	75	53335	26.812	ug/l	94
78) 4-Chlorotoluene	13.106	91	437866	30.616	ug/l	98
79) tert-butylbenzene	13.326	119	448499	29.309	ug/l	98
80) 1,2,4-Trimethylbenzene	13.369	105	494195m	29.390	ug/l	
81) sec-Butylbenzene	13.503	105	557597	26.581	ug/l	100
82) p-Isopropyltoluene	13.619	119	450493	26.880	ug/l	98
83) 1,3-Dichlorobenzene	13.619	146	217181	26.428	ug/l	98
84) 1,4-Dichlorobenzene	13.696	146	210392	26.480	ug/l	98
85) n-Butylbenzene	13.943	91	358720	25.896	ug/l	99
86) Hexachloroethane	14.211	117	86412	26.318	ug/l	97
87) 1,2-Dichlorobenzene	13.991	146	208861	26.087	ug/l	99
88) 1,2-Dibromo-3-Chloropr...	14.603	75	32439	27.200	ug/l	91
89) 1,2,4-Trichlorobenzene	15.265	180	95672	24.179	ug/l	99
90) Hexachlorobutadiene	15.373	225	51797	25.371	ug/l	99
91) Naphthalene	15.507	128	255432	23.554	ug/l	99
92) 1,2,3-Trichlorobenzene	15.702	180	94001	24.725	ug/l	99

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

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