

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN051722\
 Data File : VN072529.D
 Acq On : 17 May 2022 14:32
 Operator : JC\MD
 Sample : VN0517WBS01
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 4 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 VN0517WBS01

Manual Integrations
 APPROVED

Reviewed By : John Carlone 05/18/2022
 Supervised By : Mahesh Dadoda 05/18/2022

Quant Time: May 18 07:25:09 2022
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\624N051622W.M
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
 QLast Update : Tue May 17 06:34:50 2022
 Response via : Initial Calibration

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

Internal Standards						
1) Bromochloromethane	7.651	128	27355	30.000	ug/l	0.00
28) 1,4-Difluorobenzene	8.963	114	144716	30.000	ug/l	0.00
57) Chlorobenzene-d5	11.739	117	133024	30.000	ug/l	0.00
System Monitoring Compounds						
27) 1,2-Dichloroethane-d4	8.428	65	87578	28.452	ug/l	0.00
Spiked Amount 30.000	Range 91 - 110		Recovery =	94.833%		
60) 4-Bromofluorobenzene	12.727	95	77153	29.704	ug/l	0.00
Spiked Amount 30.000	Range 63 - 112		Recovery =	99.000%		
63) Toluene-d8	10.439	98	231672	31.904	ug/l	0.00
Spiked Amount 30.000	Range 91 - 112		Recovery =	106.333%		
Target Compounds						
					Qvalue	
2) Dichlorodifluoromethane	2.069	85	45211	19.896	ug/l	94
3) Chloromethane	2.299	50	40493	19.730	ug/l	92
4) Vinyl Chloride	2.440	62	32774	18.917	ug/l	93
5) Bromomethane	2.834	94	23732	16.841	ug/l	99
6) Chloroethane	3.005	64	21767	19.239	ug/l	94
7) Trichlorofluoromethane	3.369	101	79528	19.432	ug/l	98
8) Diethyl Ether	3.822	74	24433	19.846	ug/l	94
9) 1,1,2-Trichlorotrifluo...	4.210	101	39917	20.701	ug/l	97
10) 1,1-Dichloroethene	4.181	96	34124	19.626	ug/l	95
11) Methyl Iodide	4.422	142	50146	19.151	ug/l	97
12) Methyl Acetate	4.857	43	50322	17.890	ug/l	99
13) Acrolein	4.040	56	44672	101.074	ug/l	96
14) Acrylonitrile	5.545	53	108534	91.456	ug/l	97
15) Acetone	4.287	58	27315	87.776	ug/l	98
16) Carbon Disulfide	4.534	76	87874	19.483	ug/l	98
17) Allyl chloride	4.834	41	57503	18.322	ug/l	87
18) Methylene Chloride	5.093	84	40460	19.659	ug/l	95
19) trans-1,2-Dichloroethene	5.593	96	38559	20.191	ug/l	94
20) Diisopropyl ether	6.492	45	122561	18.784	ug/l #	97
21) 1,1-Dichloroethane	6.381	63	75219	19.278	ug/l #	91
22) cis-1,2-Dichloroethene	7.316	96	45556	20.318	ug/l	94
23) tert-Butyl Alcohol	5.357	59	37536	72.109	ug/l #	100
24) Methyl tert-Butyl Ether	5.610	73	140845	19.746	ug/l	97
25) Chloroform	7.810	83	85871	20.406	ug/l	100
26) Cyclohexane	8.087	56	61134	19.307	ug/l #	100
29) 1,1-Dichloropropene	8.222	75	57971	20.114	ug/l	96
30) 2-Butanone	7.328	43	147265	88.282	ug/l	97
31) 2,2-Dichloropropane	7.316	77	71537	20.007	ug/l	98
32) 1,1,1-Trichloroethane	8.010	97	79179	19.260	ug/l	98
33) Carbon Tetrachloride	8.198	117	69838	19.116	ug/l	96
34) Benzene	8.451	78	167453	20.447	ug/l	94
35) Methacrylonitrile	7.634	41	31678	17.961	ug/l	94
36) 1,2-Dichloroethane	8.522	62	72985	19.137	ug/l	99
37) Trichloroethene	9.210	130	44655	20.099	ug/l	94
38) Methylcyclohexane	9.457	83	66511	19.960	ug/l	96
39) 1,2-Dichloropropane	9.486	63	42953	20.821	ug/l	97
40) Dibromomethane	9.575	93	30906	19.408	ug/l	90
41) Bromodichloromethane	9.757	83	65755	19.490	ug/l #	97
42) Vinyl Acetate	6.428	43	552222m	98.356	ug/l	

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Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
43) Ethyl Acetate	7.410	43	64037	19.658	ug/l #	93
44) Isopropyl Acetate	8.557	43	95534	18.320	ug/l	96
45) 1,4-Dioxane	9.563	88	14808	298.146	ug/l #	83
46) Methyl methacrylate	9.557	41	43778	17.742	ug/l	90
47) n-amyl Acetate	12.386	43	63118	18.081	ug/l	94
48) t-1,3-Dichloropropene	10.716	75	67017	18.816	ug/l	94
49) cis-1,3-Dichloropropene	10.186	75	71241	19.845	ug/l	99
50) 1,1,2-Trichloroethane	10.892	97	44933	20.457	ug/l	97
51) Ethyl methacrylate	10.757	69	65588	19.149	ug/l	92
52) 1,3-Dichloropropane	11.039	76	73852	19.460	ug/l	99
53) Dibromochloromethane	11.233	129	52089	19.641	ug/l	100
54) 1,2-Dibromoethane	11.339	107	46021	19.697	ug/l	97
55) 2-Chloroethyl vinyl ether	10.033	63	79164	91.092	ug/l	98
56) Bromoform	12.451	173	37090	18.544	ug/l #	98
58) 4-Methyl-2-Pentanone	10.328	43	306570	97.805	ug/l	97
59) 2-Hexanone	11.080	43	214591	93.191	ug/l	99
61) Tetrachloroethene	10.969	164	44834	22.506	ug/l	87
62) Toluene	10.504	91	190446	21.192	ug/l	98
64) Chlorobenzene	11.769	112	114190	20.370	ug/l	97
65) 1,1,1,2-Tetrachloroethane	11.833	131	48634	20.982	ug/l	97
66) Ethyl Benzene	11.839	91	207668	20.544	ug/l	95
67) m/p-Xylenes	11.951	106	163026	42.539	ug/l	99
68) o-Xylene	12.274	106	77103	20.353	ug/l	94
69) Styrene	12.292	104	126504	20.967	ug/l	95
70) Isopropylbenzene	12.574	105	209541	20.845	ug/l	100
71) 1,1,2,2-Tetrachloroethane	12.822	83	63026	20.531	ug/l	99
72) 1,2,3-Trichloropropane	12.874	75	51466m	17.876	ug/l	
73) Bromobenzene	12.857	156	49011	20.259	ug/l	99
74) n-propylbenzene	12.916	91	224291	20.382	ug/l	98
75) 2-Chlorotoluene	13.004	91	148694	20.913	ug/l	96
76) 1,3,5-Trimethylbenzene	13.057	105	177104	20.599	ug/l	100
77) t-1,4-Dichloro-2-butene	12.622	75	18489	19.436	ug/l	89
78) 4-Chlorotoluene	13.098	91	137898	20.693	ug/l	96
79) tert-butylbenzene	13.321	119	153832	20.364	ug/l	99
80) 1,2,4-Trimethylbenzene	13.363	105	171897m	20.748	ug/l	
81) sec-Butylbenzene	13.498	105	204106	20.380	ug/l	99
82) p-Isopropyltoluene	13.610	119	166877	20.133	ug/l	100
83) 1,3-Dichlorobenzene	13.610	146	84743	20.520	ug/l	98
84) 1,4-Dichlorobenzene	13.692	146	82555	20.543	ug/l	98
85) n-Butylbenzene	13.939	91	104045	16.939	ug/l	98
86) Hexachloroethane	14.204	117	26226	17.184	ug/l	88
87) 1,2-Dichlorobenzene	13.986	146	81024	20.068	ug/l	98
88) 1,2-Dibromo-3-Chloropr...	14.598	75	11500	15.915	ug/l	99
89) 1,2,4-Trichlorobenzene	15.257	180	32000	17.509	ug/l	96
90) Hexachlorobutadiene	15.363	225	22434	19.861	ug/l	97
91) Naphthalene	15.504	128	82859	18.421	ug/l	100
92) 1,2,3-Trichlorobenzene	15.698	180	33919	18.232	ug/l	97

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

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