

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN051622\
 Data File : VN072495.D
 Acq On : 16 May 2022 12:16
 Operator : JC\MD
 Sample : VSTDICC005
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 2 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 VSTDICC005

Manual Integrations
 APPROVED

Reviewed By : John Carlone 05/17/2022
 Supervised By : Mahesh Dadoda 05/17/2022

Quant Time: May 16 13:19:36 2022
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\624N051622W.M
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
 QLast Update : Mon May 16 13:19:02 2022
 Response via : Initial Calibration

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

Internal Standards						
1) Bromochloromethane	7.657	128	25418	30.000	ug/l	0.00
28) 1,4-Difluorobenzene	8.963	114	129717	30.000	ug/l	0.00
57) Chlorobenzene-d5	11.739	117	120315	30.000	ug/l	0.00
System Monitoring Compounds						
27) 1,2-Dichloroethane-d4	8.433	65	85847	37.208	ug/l	0.00
Spiked Amount 30.000	Range 91 - 110		Recovery = 124.033%#			
60) 4-Bromofluorobenzene	12.727	95	63905	32.136	ug/l	0.00
Spiked Amount 30.000	Range 63 - 112		Recovery = 107.133%			
63) Toluene-d8	10.439	98	205099	34.721	ug/l	0.00
Spiked Amount 30.000	Range 91 - 112		Recovery = 115.733%#			
Target Compounds						
					Qvalue	
2) Dichlorodifluoromethane	2.069	85	10781	6.935	ug/l	95
3) Chloromethane	2.304	50	9801	5.837	ug/l	90
4) Vinyl Chloride	2.446	62	8344	4.748	ug/l	98
5) Bromomethane	2.822	94	6384	6.100	ug/l	95
6) Chloroethane	2.993	64	5601	5.016	ug/l	97
7) Trichlorofluoromethane	3.363	101	19411	7.333	ug/l	91
8) Diethyl Ether	3.822	74	5711	5.916	ug/l	98
9) 1,1,2-Trichlorotrifluo...	4.210	101	8914m	6.219	ug/l	
10) 1,1-Dichloroethene	4.187	96	7971	5.883	ug/l #	93
11) Methyl Iodide	4.422	142	10437	5.246	ug/l	95
12) Methyl Acetate	4.851	43	12447m	6.074	ug/l	
13) Acrolein	4.045	56	10146m	40.063	ug/l	
14) Acrylonitrile	5.551	53	26112m	29.560	ug/l	
15) Acetone	4.281	58	7120m	29.027	ug/l	
16) Carbon Disulfide	4.534	76	19521	5.490	ug/l	100
17) Allyl chloride	4.845	41	13501m	5.912	ug/l	
18) Methylene Chloride	5.098	84	9469	5.777	ug/l	88
19) trans-1,2-Dichloroethene	5.592	96	8972	6.099	ug/l #	79
20) Diisopropyl ether	6.492	45	29127	6.113	ug/l	98
21) 1,1-Dichloroethane	6.386	63	18906	6.552	ug/l	94
22) cis-1,2-Dichloroethene	7.316	96	10000	5.682	ug/l #	87
23) tert-Butyl Alcohol	5.363	59	11552m	33.812	ug/l	
24) Methyl tert-Butyl Ether	5.610	73	30055	5.845	ug/l #	90
25) Chloroform	7.816	83	19142	6.422	ug/l	95
26) Cyclohexane	8.098	56	12730	5.239	ug/l #	92
29) 1,1-Dichloropropene	8.216	75	12254	6.181	ug/l	94
30) 2-Butanone	7.333	43	35617	31.440	ug/l	97
31) 2,2-Dichloropropane	7.316	77	15379	6.630	ug/l	96
32) 1,1,1-Trichloroethane	8.010	97	18949	7.565	ug/l #	83
33) Carbon Tetrachloride	8.204	117	15577	7.087	ug/l	98
34) Benzene	8.457	78	36759	6.094	ug/l #	87
35) Methacrylonitrile	7.628	41	7333	6.636	ug/l	78
36) 1,2-Dichloroethane	8.528	62	17709	7.484	ug/l #	85
37) Trichloroethene	9.210	130	10214	6.437	ug/l	98
38) Methylcyclohexane	9.457	83	12955	5.333	ug/l	88
39) 1,2-Dichloropropane	9.486	63	9059	5.948	ug/l	89
40) Dibromomethane	9.575	93	7249	6.724	ug/l	85
41) Bromodichloromethane	9.757	83	14933	6.846	ug/l #	96
42) Vinyl Acetate	6.434	43	106017	27.446	ug/l	97

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Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
43) Ethyl Acetate	7.398	43	14971m	6.932	ug/l	
44) Isopropyl Acetate	8.557	43	22018	6.201	ug/l	99
45) 1,4-Dioxane	9.569	88	3842	110.201	ug/l	97
46) Methyl methacrylate	9.557	41	10386	6.677	ug/l	91
47) n-amyl Acetate	12.386	43	11216	4.849	ug/l	93
48) t-1,3-Dichloropropene	10.716	75	14535	6.228	ug/l #	86
49) cis-1,3-Dichloropropene	10.186	75	14855	5.955	ug/l #	85
50) 1,1,2-Trichloroethane	10.892	97	10010	6.470	ug/l #	89
51) Ethyl methacrylate	10.757	69	12958	5.406	ug/l	95
52) 1,3-Dichloropropane	11.039	76	16945	6.367	ug/l	97
53) Dibromochloromethane	11.233	129	11045	6.436	ug/l	99
54) 1,2-Dibromoethane	11.345	107	10124	6.311	ug/l	95
55) 2-Chloroethyl vinyl ether	10.039	63	14068	23.210	ug/l	99
56) Bromoform	12.457	173	8373	6.524	ug/l #	87
58) 4-Methyl-2-Pentanone	10.327	43	65473	30.024	ug/l	99
59) 2-Hexanone	11.086	43	45253	28.327	ug/l	100
61) Tetrachloroethene	10.974	164	9586	6.829	ug/l	89
62) Toluene	10.504	91	41569	6.220	ug/l	98
64) Chlorobenzene	11.769	112	25542	6.188	ug/l	94
65) 1,1,1,2-Tetrachloroethane	11.833	131	10224	6.378	ug/l	99
66) Ethyl Benzene	11.839	91	40919	5.557	ug/l	98
67) m/p-Xylenes	11.951	106	30909	10.929	ug/l	95
68) o-Xylene	12.274	106	15241	5.405	ug/l	98
69) Styrene	12.292	104	22497	5.068	ug/l	95
70) Isopropylbenzene	12.574	105	38045	5.305	ug/l	100
71) 1,1,2,2-Tetrachloroethane	12.827	83	13298	5.787	ug/l	96
72) 1,2,3-Trichloropropane	12.874	75	13474m	6.616	ug/l	
73) Bromobenzene	12.857	156	10090	5.778	ug/l	97
74) n-propylbenzene	12.916	91	39128	5.039	ug/l	99
75) 2-Chlorotoluene	13.004	91	28236	5.657	ug/l	96
76) 1,3,5-Trimethylbenzene	13.051	105	32249	5.500	ug/l	96
77) t-1,4-Dichloro-2-butene	12.621	75	3567	5.253	ug/l	97
78) 4-Chlorotoluene	13.098	91	24851	5.381	ug/l	96
79) tert-butylbenzene	13.321	119	28549	5.447	ug/l	96
80) 1,2,4-Trimethylbenzene	13.363	105	30005	5.259	ug/l #	81
81) sec-Butylbenzene	13.498	105	35817	5.129	ug/l	95
82) p-Isopropyltoluene	13.615	119	27641	4.836	ug/l	97
83) 1,3-Dichlorobenzene	13.615	146	15998	5.563	ug/l	98
84) 1,4-Dichlorobenzene	13.686	146	15629	5.657	ug/l	93
85) n-Butylbenzene	13.939	91	19945	4.786	ug/l	97
86) Hexachloroethane	14.204	117	6238	5.964	ug/l	75
87) 1,2-Dichlorobenzene	13.986	146	15645	5.601	ug/l	99
88) 1,2-Dibromo-3-Chloropr...	14.604	75	2587	5.747	ug/l #	73
89) 1,2,4-Trichlorobenzene	15.257	180	5290	4.237	ug/l	96
90) Hexachlorobutadiene	15.368	225	4963	6.388	ug/l	94
91) Naphthalene	15.504	128	11553	3.291	ug/l #	94
92) 1,2,3-Trichlorobenzene	15.692	180	5528	4.428	ug/l	99

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

