

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN092722\
 Data File : VN074631.D
 Acq On : 27 Sep 2022 16:52
 Operator : JC\MD
 Sample : VN0927WBSD01
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 VN0927WBSD01

Manual Integrations
 APPROVED

Reviewed By : John Carlone 09/28/2022
 Supervised By : Mahesh Dadoda 09/28/2022

Quant Time: Sep 28 08:05:01 2022
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\624N092722W.M
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
 QLast Update : Wed Sep 28 07:48:31 2022
 Response via : Initial Calibration

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

Internal Standards						
1) Bromochloromethane	7.492	128	119809	30.000	ug/l	0.00
28) 1,4-Difluorobenzene	8.828	114	721030	30.000	ug/l	0.00
57) Chlorobenzene-d5	11.621	117	656157	30.000	ug/l	0.00
System Monitoring Compounds						
27) 1,2-Dichloroethane-d4	8.286	65	347574	30.768	ug/l	0.00
Spiked Amount 30.000	Range 91 - 110		Recovery = 102.567%			
60) 4-Bromofluorobenzene	12.610	95	340130	26.686	ug/l	0.00
Spiked Amount 30.000	Range 63 - 112		Recovery = 88.967%			
63) Toluene-d8	10.310	98	1128201	30.483	ug/l	0.00
Spiked Amount 30.000	Range 91 - 112		Recovery = 101.600%			
Target Compounds						
						Qvalue
2) Dichlorodifluoromethane	1.999	85	145435	20.656	ug/l	95
3) Chloromethane	2.216	50	233943	22.626	ug/l	99
4) Vinyl Chloride	2.357	62	308697	23.320	ug/l	97
5) Bromomethane	2.728	94	221755	25.991	ug/l	89
6) Chloroethane	2.893	64	222276	23.756	ug/l	92
7) Trichlorofluoromethane	3.240	101	264623	21.523	ug/l	99
8) Diethyl Ether	3.681	74	140878	21.723	ug/l	98
9) 1,1,2-Trichlorotrifluo...	4.051	101	167104	21.201	ug/l	79
10) 1,1-Dichloroethene	4.022	96	167619	20.624	ug/l	98
11) Methyl Iodide	4.251	142	208543	20.034	ug/l	96
12) Methyl Acetate	4.675	43	379321	21.799	ug/l #	88
13) Acrolein	3.893	56	156661	110.615	ug/l	99
14) Acrylonitrile	5.363	53	749695	106.293	ug/l	98
15) Acetone	4.128	58	201474	108.759	ug/l	100
16) Carbon Disulfide	4.357	76	468172	20.497	ug/l	97
17) Allyl chloride	4.651	41	353982	21.358	ug/l	92
18) Methylene Chloride	4.904	84	216563	20.902	ug/l	94
19) trans-1,2-Dichloroethene	5.404	96	181029	19.709	ug/l	94
20) Diisopropyl ether	6.304	45	761635	21.009	ug/l	97
21) 1,1-Dichloroethane	6.198	63	380903	20.805	ug/l	98
22) cis-1,2-Dichloroethene	7.151	96	231277	20.869	ug/l	98
23) tert-Butyl Alcohol	5.175	59	301324	103.754	ug/l #	100
24) Methyl tert-Butyl Ether	5.422	73	675544	20.059	ug/l	99
25) Chloroform	7.657	83	363298	20.017	ug/l	100
26) Cyclohexane	7.933	56	356684	21.665	ug/l #	99
29) 1,1-Dichloropropene	8.069	75	269835	20.036	ug/l	97
30) 2-Butanone	7.163	43	1068482	103.991	ug/l	100
31) 2,2-Dichloropropane	7.151	77	321415	19.992	ug/l	98
32) 1,1,1-Trichloroethane	7.857	97	313370	19.697	ug/l	96
33) Carbon Tetrachloride	8.051	117	259822	19.526	ug/l	95
34) Benzene	8.310	78	882119	19.786	ug/l #	94
35) Methacrylonitrile	7.475	41	188321	19.265	ug/l	88
36) 1,2-Dichloroethane	8.386	62	281076	19.307	ug/l #	92
37) Trichloroethene	9.080	130	187802	19.838	ug/l	93
38) Methylcyclohexane	9.316	83	344015	19.737	ug/l	98
39) 1,2-Dichloropropane	9.351	63	239692	20.306	ug/l	100
40) Dibromomethane	9.445	93	153443	20.147	ug/l	98
41) Bromodichloromethane	9.627	83	300270	19.833	ug/l	100
42) Vinyl Acetate	6.245	43	3381985	101.260	ug/l	99

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Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
43) Ethyl Acetate	7.245	43	422489	21.230	ug/l	# 93
44) Isopropyl Acetate	8.422	43	651688	20.166	ug/l	99
45) 1,4-Dioxane	9.433	88	123074	446.295	ug/l	97
46) Methyl methacrylate	9.427	41	278488	20.691	ug/l	91
47) n-amyl Acetate	12.268	43	569278	19.247	ug/l	98
48) t-1,3-Dichloropropene	10.592	75	351615	19.130	ug/l	93
49) cis-1,3-Dichloropropene	10.063	75	370689	19.381	ug/l	93
50) 1,1,2-Trichloroethane	10.774	97	220624	19.924	ug/l	98
51) Ethyl methacrylate	10.639	69	399626	19.247	ug/l	95
52) 1,3-Dichloropropane	10.922	76	386087	19.672	ug/l	99
53) Dibromochloromethane	11.116	129	214507	18.330	ug/l	99
54) 1,2-Dibromoethane	11.221	107	220968	19.290	ug/l	99
55) 2-Chloroethyl vinyl ether	9.916	63	786704	97.635	ug/l	98
56) Bromoform	12.333	173	150506	16.454	ug/l	100
58) 4-Methyl-2-Pentanone	10.204	43	2197837	107.934	ug/l	99
59) 2-Hexanone	10.963	43	1676988	106.330	ug/l	99
61) Tetrachloroethene	10.851	164	146767	20.051	ug/l	93
62) Toluene	10.374	91	936567	19.493	ug/l	100
64) Chlorobenzene	11.645	112	535211	19.440	ug/l	99
65) 1,1,1,2-Tetrachloroethane	11.721	131	202268	19.553	ug/l	99
66) Ethyl Benzene	11.721	91	1021150	20.014	ug/l	98
67) m/p-Xylenes	11.827	106	776398	37.900	ug/l	97
68) o-Xylene	12.157	106	398896	19.125	ug/l	95
69) Styrene	12.174	104	608814	17.350	ug/l	98
70) Isopropylbenzene	12.457	105	973636	18.297	ug/l	99
71) 1,1,2,2-Tetrachloroethane	12.704	83	384524	20.357	ug/l	97
72) 1,2,3-Trichloropropane	12.757	75	280255m	19.600	ug/l	
73) Bromobenzene	12.733	156	197469	18.469	ug/l	94
74) n-propylbenzene	12.798	91	1136734	18.958	ug/l	99
75) 2-Chlorotoluene	12.880	91	680075	18.698	ug/l	100
76) 1,3,5-Trimethylbenzene	12.939	105	797194	17.768	ug/l	98
77) t-1,4-Dichloro-2-butene	12.504	75	139802	18.875	ug/l	96
78) 4-Chlorotoluene	12.980	91	642421	17.624	ug/l	99
79) tert-butylbenzene	13.198	119	718496	18.303	ug/l	99
80) 1,2,4-Trimethylbenzene	13.245	105	783347	17.677	ug/l	99
81) sec-Butylbenzene	13.380	105	990062	17.817	ug/l	100
82) p-Isopropyltoluene	13.492	119	779550	17.052	ug/l	100
83) 1,3-Dichlorobenzene	13.492	146	365863	16.651	ug/l	98
84) 1,4-Dichlorobenzene	13.568	146	358288	16.395	ug/l	98
85) n-Butylbenzene	13.821	91	671662	17.221	ug/l	99
86) Hexachloroethane	14.086	117	165335	18.776	ug/l	100
87) 1,2-Dichlorobenzene	13.862	146	387844	17.256	ug/l	99
88) 1,2-Dibromo-3-Chloropr...	14.480	75	77862	19.682	ug/l	96
89) 1,2,4-Trichlorobenzene	15.133	180	176916	18.872	ug/l	97
90) Hexachlorobutadiene	15.233	225	79174	19.169	ug/l	95
91) Naphthalene	15.368	128	740851	18.837	ug/l	99
92) 1,2,3-Trichlorobenzene	15.557	180	167571	17.828	ug/l	97

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

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