

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN090624\
 Data File : VN083691.D
 Acq On : 06 Sep 2024 12:22
 Operator : JC\MD
 Sample : VSTDICC100
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 VSTDICC100

Manual Integrations
 APPROVED

Reviewed By : John Carlone 09/09/2024
 Supervised By : Mahesh Dadoda 09/09/2024

Quant Time: Sep 06 23:31:34 2024
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\624N090624W.M
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
 QLast Update : Fri Sep 06 23:27:49 2024
 Response via : Initial Calibration

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

Internal Standards						
1) Bromochloromethane	7.812	128	29990	30.000	ug/l	0.00
28) 1,4-Difluorobenzene	9.094	114	176500	30.000	ug/l	0.00
57) Chlorobenzene-d5	11.865	117	162431	30.000	ug/l	0.00
System Monitoring Compounds						
27) 1,2-Dichloroethane-d4	8.577	65	82140	29.964	ug/l	0.00
Spiked Amount 30.000	Range	91 - 110	Recovery	=	99.867%	
60) 4-Bromofluorobenzene	12.847	95	85052	30.381	ug/l	0.00
Spiked Amount 30.000	Range	63 - 112	Recovery	=	101.267%	
63) Toluene-d8	10.565	98	223216	29.678	ug/l	0.00
Spiked Amount 30.000	Range	91 - 112	Recovery	=	98.933%	
Target Compounds						Qvalue
2) Dichlorodifluoromethane	2.124	85	209558	104.343	ug/l	96
3) Chloromethane	2.359	50	215800	103.416	ug/l	98
4) Vinyl Chloride	2.518	62	226055	105.377	ug/l	98
5) Bromomethane	2.901	94	122124	101.894	ug/l	100
6) Chloroethane	3.071	64	147195	102.467	ug/l	97
7) Trichlorofluoromethane	3.471	101	372240	103.502	ug/l	98
8) Diethyl Ether	3.954	74	128401	105.070	ug/l	87
9) 1,1,2-Trichlorotrifluo...	4.359	101	201727	104.422	ug/l	94
10) 1,1-Dichloroethene	4.330	96	197471	105.943	ug/l	90
11) Methyl Iodide	4.577	142	270815	106.965	ug/l	94
12) Methyl Acetate	5.018	43	220123	97.924	ug/l #	82
13) Acrolein	4.171	56	181106	552.050	ug/l	97
14) Acrylonitrile	5.712	53	469720	516.351	ug/l	98
15) Acetone	4.430	58	169727	562.450	ug/l	72
16) Carbon Disulfide	4.701	76	544689	103.401	ug/l	96
17) Allyl chloride	5.012	41	349243	106.730	ug/l	85
18) Methylene Chloride	5.271	84	215394	105.625	ug/l	93
19) trans-1,2-Dichloroethene	5.777	96	202294	104.715	ug/l	93
20) Diisopropyl ether	6.671	45	698099	105.756	ug/l	97
21) 1,1-Dichloroethane	6.559	63	397981	105.599	ug/l	96
22) cis-1,2-Dichloroethene	7.483	96	245891	104.579	ug/l	92
23) tert-Butyl Alcohol	5.536	59	173594	520.025	ug/l #	100
24) Methyl tert-Butyl Ether	5.795	73	698808	105.500	ug/l #	87
25) Chloroform	7.965	83	419936	105.142	ug/l	99
26) Cyclohexane	8.253	56	352624	106.232	ug/l #	88
29) 1,1-Dichloropropene	8.365	75	296128	105.778	ug/l	97
30) 2-Butanone	7.483	43	706552	535.402	ug/l	95
31) 2,2-Dichloropropane	7.483	77	385127	107.903	ug/l	97
32) 1,1,1-Trichloroethane	8.165	97	395080	105.672	ug/l	98
33) Carbon Tetrachloride	8.359	117	344923	106.532	ug/l	97
34) Benzene	8.600	78	883536	105.185	ug/l	96
35) Methacrylonitrile	7.777	41	152162	102.570	ug/l	94
36) 1,2-Dichloroethane	8.665	62	328967	104.175	ug/l #	94
37) Trichloroethene	9.347	130	209884	106.405	ug/l	94
38) Methylcyclohexane	9.600	83	361334	107.807	ug/l	96
39) 1,2-Dichloropropane	9.618	63	213074	105.397	ug/l	99
40) Dibromomethane	9.706	93	154362	104.426	ug/l	95
41) Bromodichloromethane	9.883	83	339079	107.873	ug/l	97
42) Vinyl Acetate	6.600	43	2715172	500.418	ug/l	97

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43) Ethyl Acetate	7.559	43	274239	103.245	ug/l	96
44) Isopropyl Acetate	8.688	43	492170	107.129	ug/l	91
45) 1,4-Dioxane	9.694	88	74732	2085.575	ug/l	96
46) Methyl methacrylate	9.677	41	237084	106.617	ug/l	81
47) n-amyl Acetate	12.494	43	453691	111.485	ug/l	90
48) t-1,3-Dichloropropene	10.835	75	357101	108.005	ug/l	98
49) cis-1,3-Dichloropropene	10.312	75	373701	108.678	ug/l #	86
50) 1,1,2-Trichloroethane	11.012	97	200803	106.757	ug/l	97
51) Ethyl methacrylate	10.871	69	349215	108.672	ug/l	80
52) 1,3-Dichloropropane	11.165	76	353943	104.200	ug/l	99
53) Dibromochloromethane	11.359	129	245689	108.901	ug/l	99
54) 1,2-Dibromoethane	11.471	107	208856	107.334	ug/l	100
55) 2-Chloroethyl vinyl ether	10.159	63	612442	478.222	ug/l	98
56) Bromoform	12.576	173	158228	110.393	ug/l #	97
58) 4-Methyl-2-Pentanone	10.441	43	1332742	517.461	ug/l #	89
59) 2-Hexanone	11.194	43	1020446	524.351	ug/l	89
61) Tetrachloroethene	11.106	164	178440	103.802	ug/l	93
62) Toluene	10.630	91	965496	103.413	ug/l	99
64) Chlorobenzene	11.888	112	592341	102.474	ug/l	99
65) 1,1,1,2-Tetrachloroethane	11.959	131	210376	104.475	ug/l	98
66) Ethyl Benzene	11.965	91	1122330	105.709	ug/l	100
67) m/p-Xylenes	12.071	106	825202	211.258	ug/l	97
68) o-Xylene	12.394	106	400965	106.062	ug/l	97
69) Styrene	12.412	104	688492	107.784	ug/l	99
70) Isopropylbenzene	12.694	105	1072525	107.504	ug/l	100
71) 1,1,2,2-Tetrachloroethane	12.935	83	286536	105.157	ug/l	99
72) 1,2,3-Trichloropropane	12.988	75	245619m	103.011	ug/l	
73) Bromobenzene	12.976	156	235332	102.697	ug/l	94
74) n-propylbenzene	13.035	91	1257711	107.692	ug/l	100
75) 2-Chlorotoluene	13.124	91	770527	105.710	ug/l	100
76) 1,3,5-Trimethylbenzene	13.171	105	894833	107.375	ug/l	98
77) t-1,4-Dichloro-2-butene	12.735	75	111742	110.656	ug/l	90
78) 4-Chlorotoluene	13.218	91	775962	104.973	ug/l	99
79) tert-butylbenzene	13.435	119	788164	108.154	ug/l	99
80) 1,2,4-Trimethylbenzene	13.482	105	907299	107.735	ug/l	100
81) sec-Butylbenzene	13.618	105	1083038	108.791	ug/l	99
82) p-Isopropyltoluene	13.729	119	922780	110.170	ug/l	99
83) 1,3-Dichlorobenzene	13.735	146	456338	103.470	ug/l	99
84) 1,4-Dichlorobenzene	13.812	146	456667	103.570	ug/l	99
85) n-Butylbenzene	14.053	91	815058	110.271	ug/l	98
86) Hexachloroethane	14.335	117	175667	110.673	ug/l	88
87) 1,2-Dichlorobenzene	14.106	146	447620	104.578	ug/l	98
88) 1,2-Dibromo-3-Chloropr...	14.717	75	62273	103.991	ug/l	95
89) 1,2,4-Trichlorobenzene	15.841	180	244783	104.388	ug/l	100
90) Hexachlorobutadiene	15.500	225	101462	104.537	ug/l	99
91) Naphthalene	15.641	128	822022	107.226	ug/l	99
92) 1,2,3-Trichlorobenzene	15.841	180	244783	104.388	ug/l	100

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

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