

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN090624\
 Data File : VN083696.D
 Acq On : 06 Sep 2024 15:13
 Operator : JC\MD
 Sample : VN0906WBS01
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 VN0906WBS01

Manual Integrations
 APPROVED

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

Quant Time: Sep 06 23:46:44 2024
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\624N090624W.M
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
 QLast Update : Fri Sep 06 23:42:47 2024
 Response via : Initial Calibration

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

Internal Standards						
1) Bromochloromethane	7.812	128	28730	30.000	ug/l	0.00
28) 1,4-Difluorobenzene	9.100	114	172207	30.000	ug/l	0.00
57) Chlorobenzene-d5	11.865	117	155751	30.000	ug/l	0.00
System Monitoring Compounds						
27) 1,2-Dichloroethane-d4	8.577	65	81933	31.199	ug/l	0.00
Spiked Amount 30.000	Range 91 - 110		Recovery = 104.000%			
60) 4-Bromofluorobenzene	12.847	95	79901	29.766	ug/l	0.00
Spiked Amount 30.000	Range 63 - 112		Recovery = 99.233%			
63) Toluene-d8	10.565	98	216278	29.989	ug/l	0.00
Spiked Amount 30.000	Range 91 - 112		Recovery = 99.967%			
Target Compounds						
					Qvalue	
2) Dichlorodifluoromethane	2.124	85	38314	19.914	ug/l	97
3) Chloromethane	2.359	50	40307	20.163	ug/l	100
4) Vinyl Chloride	2.512	62	40061	19.494	ug/l	97
5) Bromomethane	2.906	94	23741	20.677	ug/l	94
6) Chloroethane	3.083	64	27816	20.213	ug/l	95
7) Trichlorofluoromethane	3.477	101	67795	19.677	ug/l	99
8) Diethyl Ether	3.953	74	23728	20.268	ug/l	87
9) 1,1,2-Trichlorotrifluo...	4.365	101	36625	19.790	ug/l	93
10) 1,1-Dichloroethene	4.330	96	34932	19.563	ug/l	88
11) Methyl Iodide	4.577	142	47846	19.727	ug/l	94
12) Methyl Acetate	5.018	43	42395	19.687	ug/l #	74
13) Acrolein	4.171	56	31828	101.274	ug/l	99
14) Acrylonitrile	5.718	53	84829	97.340	ug/l	97
15) Acetone	4.430	58	24716	85.497	ug/l #	69
16) Carbon Disulfide	4.706	76	94799	18.785	ug/l	96
17) Allyl chloride	5.018	41	60903	19.450	ug/l	87
18) Methylene Chloride	5.271	84	39683	20.313	ug/l	87
19) trans-1,2-Dichloroethene	5.777	96	36192	19.556	ug/l	93
20) Diisopropyl ether	6.665	45	126490	20.003	ug/l	97
21) 1,1-Dichloroethane	6.565	63	71871	19.906	ug/l	94
22) cis-1,2-Dichloroethene	7.483	96	43999	19.534	ug/l	94
23) tert-Butyl Alcohol	5.530	59	32237m	100.806	ug/l	
24) Methyl tert-Butyl Ether	5.794	73	125538	19.784	ug/l #	87
25) Chloroform	7.965	83	73798	19.288	ug/l	94
26) Cyclohexane	8.247	56	62633	19.696	ug/l #	87
29) 1,1-Dichloropropene	8.371	75	50222	18.387	ug/l	97
30) 2-Butanone	7.483	43	121587	94.432	ug/l #	93
31) 2,2-Dichloropropane	7.488	77	66056	18.969	ug/l	96
32) 1,1,1-Trichloroethane	8.165	97	70190	19.242	ug/l	98
33) Carbon Tetrachloride	8.353	117	58913	18.649	ug/l	97
34) Benzene	8.600	78	158620	19.354	ug/l	97
35) Methacrylonitrile	7.777	41	27194	18.788	ug/l	91
36) 1,2-Dichloroethane	8.671	62	58498	18.987	ug/l	95
37) Trichloroethene	9.353	130	36120	18.768	ug/l	94
38) Methylcyclohexane	9.600	83	61655	18.854	ug/l	96
39) 1,2-Dichloropropane	9.618	63	37692	19.109	ug/l	94
40) Dibromomethane	9.706	93	27532	19.090	ug/l	93
41) Bromodichloromethane	9.888	83	58094	18.942	ug/l	97
42) Vinyl Acetate	6.600	43	474515	89.635	ug/l	96

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Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
43) Ethyl Acetate	7.559	43	49448	19.080	ug/l #	90
44) Isopropyl Acetate	8.688	43	87394	19.497	ug/l	90
45) 1,4-Dioxane	9.700	88	14762	422.239	ug/l	99
46) Methyl methacrylate	9.682	41	41515	19.135	ug/l	80
47) n-amyl Acetate	12.494	43	76049	19.153	ug/l	90
48) t-1,3-Dichloropropene	10.835	75	58767	18.217	ug/l	98
49) cis-1,3-Dichloropropene	10.312	75	61759	18.408	ug/l #	78
50) 1,1,2-Trichloroethane	11.018	97	36114	19.679	ug/l	98
51) Ethyl methacrylate	10.876	69	59450	18.961	ug/l	82
52) 1,3-Dichloropropane	11.165	76	61738	18.629	ug/l	99
53) Dibromochloromethane	11.359	129	40866	18.565	ug/l	99
54) 1,2-Dibromoethane	11.471	107	36410	19.178	ug/l	99
55) 2-Chloroethyl vinyl ether	10.159	63	116609	93.323	ug/l	98
56) Bromoform	12.576	173	25232	18.043	ug/l #	99
58) 4-Methyl-2-Pentanone	10.447	43	244576	99.034	ug/l #	88
59) 2-Hexanone	11.194	43	178724	95.775	ug/l	89
61) Tetrachloroethene	11.100	164	31743	19.257	ug/l	86
62) Toluene	10.629	91	168899	18.866	ug/l	100
64) Chlorobenzene	11.894	112	103410	18.657	ug/l	100
65) 1,1,1,2-Tetrachloroethane	11.959	131	35746	18.513	ug/l	98
66) Ethyl Benzene	11.965	91	190360	18.698	ug/l	98
67) m/p-Xylenes	12.070	106	137924	36.824	ug/l	96
68) o-Xylene	12.394	106	70118	19.343	ug/l	98
69) Styrene	12.412	104	113863	18.590	ug/l	99
70) Isopropylbenzene	12.694	105	179060	18.718	ug/l	99
71) 1,1,2,2-Tetrachloroethane	12.935	83	50960	19.504	ug/l	99
72) 1,2,3-Trichloropropane	12.994	75	44758m	19.538	ug/l	
73) Bromobenzene	12.982	156	39122	17.805	ug/l	93
74) n-propylbenzene	13.035	91	207605	18.539	ug/l	99
75) 2-Chlorotoluene	13.123	91	131027	18.747	ug/l	99
76) 1,3,5-Trimethylbenzene	13.176	105	151758	18.991	ug/l	98
77) t-1,4-Dichloro-2-butene	12.735	75	17354	17.922	ug/l	84
78) 4-Chlorotoluene	13.223	91	128699	18.157	ug/l	98
79) tert-butylbenzene	13.441	119	131602	18.833	ug/l	97
80) 1,2,4-Trimethylbenzene	13.482	105	152041	18.828	ug/l	100
81) sec-Butylbenzene	13.617	105	172651	18.087	ug/l	99
82) p-Isopropyltoluene	13.729	119	145806	18.154	ug/l	98
83) 1,3-Dichlorobenzene	13.729	146	76085	17.991	ug/l	98
84) 1,4-Dichlorobenzene	13.812	146	74129	17.533	ug/l	98
85) n-Butylbenzene	14.059	91	123124	17.372	ug/l	98
86) Hexachloroethane	14.329	117	28195	18.525	ug/l	86
87) 1,2-Dichlorobenzene	14.106	146	73959	18.020	ug/l	97
88) 1,2-Dibromo-3-Chloropr...	14.717	75	11253	19.598	ug/l #	83
89) 1,2,4-Trichlorobenzene	15.841	180	37627	16.734	ug/l	98
90) Hexachlorobutadiene	15.500	225	16146	17.349	ug/l	98
91) Naphthalene	15.641	128	127825	17.389	ug/l	99
92) 1,2,3-Trichlorobenzene	15.841	180	37627	16.734	ug/l	98

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

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