

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN091123\
 Data File : VN079209.D
 Acq On : 11 Sep 2023 10:34
 Operator : JC\MD
 Sample : VN0911WBS01
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 3 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 VN0911WBS01

Quant Time: Sep 12 02:43:54 2023
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\624N090723W.M
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
 QLast Update : Fri Sep 08 05:09:17 2023
 Response via : Initial Calibration

Manual Integrations APPROVED

Reviewed By :John
 Carlone

09/12/2023
 Supervised By :Mahesh
 Dadoda

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)	Qvalue
Internal Standards							
1) Bromochloromethane	7.824	128	22597	30.000	ug/l	0.00	
28) 1,4-Difluorobenzene	9.106	114	118712	30.000	ug/l	0.00	
57) Chlorobenzene-d5	11.871	117	105086	30.000	ug/l	0.00	
System Monitoring Compounds							
27) 1,2-Dichloroethane-d4	8.583	65	53221	31.348	ug/l	0.00	
Spiked Amount	30.000	Range	91 - 110	Recovery	=	104.500%	
60) 4-Bromofluorobenzene	12.853	95	45098	29.126	ug/l	0.00	
Spiked Amount	30.000	Range	63 - 112	Recovery	=	97.100%	
63) Toluene-d8	10.571	98	149899	30.523	ug/l	0.00	
Spiked Amount	30.000	Range	91 - 112	Recovery	=	101.733%	
Target Compounds							
2) Dichlorodifluoromethane	2.130	85	19523	15.491	ug/l		88
3) Chloromethane	2.365	50	27240	21.555	ug/l		95
4) Vinyl Chloride	2.518	62	30988	24.785	ug/l		92
5) Bromomethane	2.959	94	13524	17.624	ug/l		87
6) Chloroethane	3.124	64	21323m	27.847	ug/l		
7) Trichlorofluoromethane	3.501	101	47118	31.655	ug/l		99
8) Diethyl Ether	3.965	74	16089	29.480	ug/l		94
9) 1,1,2-Trichlorotrifluo...	4.371	101	24970	30.441	ug/l		98
10) 1,1-Dichloroethene	4.348	96	24144	30.377	ug/l		95
11) Methyl Iodide	4.589	142	17053	17.033	ug/l		98
12) Methyl Acetate	5.030	43	51166	27.624	ug/l		96
13) Acrolein	4.183	56	23139	137.163	ug/l		97
14) Acrylonitrile	5.724	53	68564	126.173	ug/l		99
15) Acetone	4.436	58	21811	153.862	ug/l		99
16) Carbon Disulfide	4.718	76	64668	27.535	ug/l		98
17) Allyl chloride	5.024	41	34266	26.830	ug/l		95
18) Methylene Chloride	5.289	84	29340	27.523	ug/l		92
19) trans-1,2-Dichloroethene	5.789	96	26483	26.632	ug/l		97
20) Diisopropyl ether	6.677	45	81456	21.364	ug/l #		90
21) 1,1-Dichloroethane	6.577	63	51246	22.943	ug/l		97
22) cis-1,2-Dichloroethene	7.489	96	30429	19.566	ug/l		99
23) tert-Butyl Alcohol	5.530	59	23735	113.539	ug/l #		100
24) Methyl tert-Butyl Ether	5.800	73	82857	26.414	ug/l		99
25) Chloroform	7.971	83	53566	19.888	ug/l		98
26) Cyclohexane	8.259	56	33706	16.641	ug/l #		95
29) 1,1-Dichloropropene	8.377	75	35319	18.557	ug/l		98
30) 2-Butanone	7.489	43	90331	94.357	ug/l		100
31) 2,2-Dichloropropane	7.500	77	41964	22.104	ug/l		100
32) 1,1,1-Trichloroethane	8.177	97	44744	19.954	ug/l		99
33) Carbon Tetrachloride	8.371	117	39383	20.446	ug/l		94
34) Benzene	8.612	78	109926	18.178	ug/l		98
35) Methacrylonitrile	7.783	41	19915	19.320	ug/l		96
36) 1,2-Dichloroethane	8.677	62	40209	20.161	ug/l		98
37) Trichloroethene	9.359	130	27794	19.445	ug/l		97
38) Methylcyclohexane	9.606	83	34162	17.954	ug/l		97
39) 1,2-Dichloropropane	9.624	63	29297	18.782	ug/l #		88
40) Dibromomethane	9.718	93	19879	19.325	ug/l		96
41) Bromodichloromethane	9.894	83	41358	20.169	ug/l		95
42) Vinyl Acetate	6.612	43	243463	107.085	ug/l		100

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Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
43) Ethyl Acetate	7.571	43	34506	18.979	ug/l	100
44) Isopropyl Acetate	8.694	43	56020	17.128	ug/l	97
45) 1,4-Dioxane	9.694	88	10361	318.250	ug/l	93
46) Methyl methacrylate	9.683	41	26603	18.206	ug/l	93
47) n-amyl Acetate	12.500	43	39544	17.192	ug/l	98
48) t-1,3-Dichloropropene	10.841	75	41014	18.487	ug/l	95
49) cis-1,3-Dichloropropene	10.318	75	45178	19.523	ug/l	98
50) 1,1,2-Trichloroethane	11.024	97	27363	18.961	ug/l	96
51) Ethyl methacrylate	10.883	69	37378	16.771	ug/l	94
52) 1,3-Dichloropropane	11.165	76	46893	19.033	ug/l	99
53) Dibromochloromethane	11.365	129	30532	20.172	ug/l	99
54) 1,2-Dibromoethane	11.477	107	26924	18.373	ug/l	99
55) 2-Chloroethyl vinyl ether	10.165	63	73231	92.473	ug/l	99
56) Bromoform	12.582	173	20960	19.873	ug/l	97
58) 4-Methyl-2-Pentanone	10.447	43	174638	90.562	ug/l	97
59) 2-Hexanone	11.200	43	123677	91.322	ug/l	97
61) Tetrachloroethene	11.106	164	22516	19.691	ug/l	94
62) Toluene	10.635	91	118839	19.422	ug/l	98
64) Chlorobenzene	11.894	112	68190	19.104	ug/l	99
65) 1,1,1,2-Tetrachloroethane	11.965	131	28433	20.806	ug/l	96
66) Ethyl Benzene	11.965	91	118770	19.279	ug/l	98
67) m/p-Xylenes	12.077	106	92617	39.954	ug/l	97
68) o-Xylene	12.406	106	45166	20.203	ug/l	96
69) Styrene	12.418	104	72815	20.421	ug/l	98
70) Isopropylbenzene	12.700	105	111005	19.535	ug/l	99
71) 1,1,2,2-Tetrachloroethane	12.941	83	39383	18.527	ug/l	99
72) 1,2,3-Trichloropropane	12.994	75	31498m	17.611	ug/l	
73) Bromobenzene	12.982	156	27233	19.185	ug/l	95
74) n-propylbenzene	13.041	91	124246	19.190	ug/l	99
75) 2-Chlorotoluene	13.129	91	78633	18.941	ug/l	98
76) 1,3,5-Trimethylbenzene	13.176	105	91373	19.447	ug/l	100
77) t-1,4-Dichloro-2-butene	12.747	75	11088	17.608	ug/l	93
78) 4-Chlorotoluene	13.229	91	74270	18.946	ug/l	98
79) tert-butylbenzene	13.441	119	75083	19.469	ug/l	99
80) 1,2,4-Trimethylbenzene	13.488	105	88287	19.676	ug/l	100
81) sec-Butylbenzene	13.624	105	100167	18.983	ug/l	98
82) p-Isopropyltoluene	13.735	119	78346	18.797	ug/l	100
83) 1,3-Dichlorobenzene	13.735	146	43019	19.083	ug/l	99
84) 1,4-Dichlorobenzene	13.818	146	40676	19.240	ug/l	99
85) n-Butylbenzene	14.065	91	58150	18.318	ug/l	99
86) Hexachloroethane	14.335	117	15599	18.902	ug/l	99
87) 1,2-Dichlorobenzene	14.112	146	42513	19.110	ug/l	98
88) 1,2-Dibromo-3-Chloropr...	14.723	75	5797	16.134	ug/l	97
89) 1,2,4-Trichlorobenzene	15.847	180	16225	17.044	ug/l	96
90) Hexachlorobutadiene	15.506	225	11502	19.891	ug/l	98
91) Naphthalene	15.647	128	35740	14.367	ug/l	98
92) 1,2,3-Trichlorobenzene	15.847	180	16225	17.044	ug/l	96

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

