

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN020924\
 Data File : VN080989.D
 Acq On : 09 Feb 2024 15:09
 Operator : JC\MD
 Sample : P1187-08 5.0PPB
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 13 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 LOQ-WATER-02-QT1-2024

Quant Time: Feb 10 03:15:13 2024
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\624N020924W.M
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
 QLast Update : Sat Feb 10 01:55:02 2024
 Response via : Initial Calibration

Manual Integrations APPROVED

Reviewed By : John Carlone 02/12/2024
 Supervised By : Mahesh Dadoda 02/12/2024

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

Internal Standards						
1) Bromochloromethane	7.812	128	70110	30.000	ug/l	0.00
28) 1,4-Difluorobenzene	9.106	114	407495	30.000	ug/l	0.00
57) Chlorobenzene-d5	11.871	117	363104	30.000	ug/l	0.00
System Monitoring Compounds						
27) 1,2-Dichloroethane-d4	8.577	65	168664	32.016	ug/l	0.00
Spiked Amount 30.000	Range 91 - 110		Recovery = 106.733%			
60) 4-Bromofluorobenzene	12.853	95	161212	29.042	ug/l	0.00
Spiked Amount 30.000	Range 63 - 112		Recovery = 96.800%			
63) Toluene-d8	10.571	98	493324	30.275	ug/l	0.00
Spiked Amount 30.000	Range 91 - 112		Recovery = 100.900%			
Target Compounds						
					Qvalue	
2) Dichlorodifluoromethane	2.124	85	23331	4.894	ug/l	93
3) Chloromethane	2.359	50	27689	5.780	ug/l #	87
4) Vinyl Chloride	2.506	62	32716	5.728	ug/l	93
5) Bromomethane	2.948	94	22580	5.886	ug/l	85
6) Chloroethane	3.112	64	23318	6.263	ug/l	90
7) Trichlorofluoromethane	3.495	101	39916	5.307	ug/l	95
8) Diethyl Ether	3.965	74	14153m	5.354	ug/l	
9) 1,1,2-Trichlorotrifluo...	4.377	101	22253m	5.451	ug/l	
10) 1,1-Dichloroethene	4.330	96	21740	5.434	ug/l #	84
11) Methyl Iodide	4.577	142	19709	4.600	ug/l	77
12) Methyl Acetate	5.036	43	21075m	5.813	ug/l	
13) Acrolein	4.177	56	20346	25.733	ug/l	97
14) Acrylonitrile	5.718	53	49110	27.278	ug/l	94
15) Acetone	4.430	58	13238m	31.964	ug/l	
16) Carbon Disulfide	4.712	76	55110	5.019	ug/l	96
17) Allyl chloride	5.018	41	27410m	5.455	ug/l	
18) Methylene Chloride	5.283	84	26616m	5.821	ug/l	
19) trans-1,2-Dichloroethene	5.789	96	24775m	5.455	ug/l	
20) Diisopropyl ether	6.677	45	64161	5.313	ug/l	95
21) 1,1-Dichloroethane	6.571	63	40446	5.226	ug/l	93
22) cis-1,2-Dichloroethene	7.483	96	29754	5.638	ug/l #	82
23) tert-Butyl Alcohol	5.524	59	20211m	30.817	ug/l	
24) Methyl tert-Butyl Ether	5.800	73	69713	5.256	ug/l #	82
25) Chloroform	7.959	83	47927	5.582	ug/l	90
26) Cyclohexane	8.253	56	30049	5.156	ug/l #	81
29) 1,1-Dichloropropene	8.371	75	32330	5.326	ug/l	98
30) 2-Butanone	7.483	43	67604	30.356	ug/l #	95
31) 2,2-Dichloropropane	7.494	77	35886	5.193	ug/l	100
32) 1,1,1-Trichloroethane	8.177	97	41615	5.450	ug/l	98
33) Carbon Tetrachloride	8.359	117	31100	4.834	ug/l	89
34) Benzene	8.606	78	99643	5.372	ug/l #	90
35) Methacrylonitrile	7.783	41	16165	6.175	ug/l	95
36) 1,2-Dichloroethane	8.671	62	35584	5.716	ug/l #	86
37) Trichloroethene	9.359	130	25524	5.176	ug/l	96
38) Methylcyclohexane	9.600	83	29735	4.909	ug/l	94
39) 1,2-Dichloropropane	9.630	63	23213	5.276	ug/l #	86
40) Dibromomethane	9.712	93	17714	5.292	ug/l	95
41) Bromodichloromethane	9.894	83	33515	5.116	ug/l	98
42) Vinyl Acetate	6.600	43	251520	26.404	ug/l	100

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Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
43) Ethyl Acetate	7.565	43	24874	5.362	ug/l	100
44) Isopropyl Acetate	8.688	43	45283	5.433	ug/l	94
45) 1,4-Dioxane	9.706	88	8551	108.179	ug/l #	90
46) Methyl methacrylate	9.682	41	20401	5.350	ug/l	93
47) n-amyl Acetate	12.500	43	33941	4.670	ug/l	97
48) t-1,3-Dichloropropene	10.835	75	33595	4.893	ug/l	100
49) cis-1,3-Dichloropropene	10.318	75	37387	5.025	ug/l #	88
50) 1,1,2-Trichloroethane	11.024	97	25100	5.419	ug/l #	91
51) Ethyl methacrylate	10.877	69	32099	4.959	ug/l	93
52) 1,3-Dichloropropane	11.165	76	41556	5.433	ug/l	99
53) Dibromochloromethane	11.359	129	24278	4.809	ug/l	95
54) 1,2-Dibromoethane	11.476	107	23440	4.892	ug/l	90
55) 2-Chloroethyl vinyl ether	10.165	63	80714	24.331	ug/l	98
56) Bromoform	12.582	173	13939	4.336	ug/l #	92
58) 4-Methyl-2-Pentanone	10.447	43	137077	29.078	ug/l	92
59) 2-Hexanone	11.200	43	95837	27.641	ug/l	92
61) Tetrachloroethene	11.112	164	23744	5.725	ug/l #	76
62) Toluene	10.635	91	105976	5.328	ug/l	98
64) Chlorobenzene	11.894	112	64234	5.273	ug/l	99
65) 1,1,1,2-Tetrachloroethane	11.965	131	22996	5.089	ug/l	95
66) Ethyl Benzene	11.971	91	108006	5.164	ug/l	98
67) m/p-Xylenes	12.076	106	81219	9.889	ug/l	95
68) o-Xylene	12.400	106	40302	5.007	ug/l	91
69) Styrene	12.412	104	62566	4.722	ug/l	97
70) Isopropylbenzene	12.700	105	94723	4.829	ug/l	96
71) 1,1,2,2-Tetrachloroethane	12.941	83	34189	5.653	ug/l	97
72) 1,2,3-Trichloropropane	12.994	75	27230m	5.751	ug/l	
73) Bromobenzene	12.982	156	23942	4.908	ug/l	96
74) n-propylbenzene	13.041	91	109199	4.899	ug/l	99
75) 2-Chlorotoluene	13.129	91	72530	5.241	ug/l	98
76) 1,3,5-Trimethylbenzene	13.176	105	76403	4.761	ug/l	99
77) t-1,4-Dichloro-2-butene	12.735	75	7971	4.449	ug/l	84
78) 4-Chlorotoluene	13.223	91	69729	5.031	ug/l	95
79) tert-butylbenzene	13.441	119	64851	4.868	ug/l	99
80) 1,2,4-Trimethylbenzene	13.482	105	76249	4.768	ug/l	97
81) sec-Butylbenzene	13.618	105	86476	4.635	ug/l	94
82) p-Isopropyltoluene	13.735	119	70821	4.522	ug/l	98
83) 1,3-Dichlorobenzene	13.735	146	41538	4.735	ug/l	96
84) 1,4-Dichlorobenzene	13.818	146	43377	4.926	ug/l	96
85) n-Butylbenzene	14.059	91	57531	4.452	ug/l	99
86) Hexachloroethane	14.341	117	10952	4.433	ug/l	84
87) 1,2-Dichlorobenzene	14.112	146	41605	4.871	ug/l	95
88) 1,2-Dibromo-3-Chloropr...	14.717	75	6364	5.829	ug/l	91
89) 1,2,4-Trichlorobenzene	15.853	180	18667	4.467	ug/l	94
90) Hexachlorobutadiene	15.506	225	11362	6.198	ug/l	97
91) Naphthalene	15.647	128	78575	5.296	ug/l	99
92) 1,2,3-Trichlorobenzene	15.853	180	18667	4.467	ug/l	94

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

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