

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN090823\
 Data File : VN079191.D
 Acq On : 08 Sep 2023 12:26
 Operator : JC\MD
 Sample : VN0908WBSD01
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 4 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 VN0908WBSD01

Manual Integrations
 APPROVED

Reviewed By : John Carlone 09/09/2023
 Supervised By : Mahesh Dadoda 09/11/2023

Quant Time: Sep 08 17:20:08 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

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

Internal Standards						
1) Bromochloromethane	7.818	128	26327	30.000	ug/l	0.00
28) 1,4-Difluorobenzene	9.106	114	141009	30.000	ug/l	0.00
57) Chlorobenzene-d5	11.871	117	128952	30.000	ug/l	0.00
System Monitoring Compounds						
27) 1,2-Dichloroethane-d4	8.583	65	59176	29.917	ug/l	0.00
Spiked Amount 30.000	Range	91 - 110	Recovery	=	99.733%	
60) 4-Bromofluorobenzene	12.853	95	62416	32.850	ug/l	0.00
Spiked Amount 30.000	Range	63 - 112	Recovery	=	109.500%	
63) Toluene-d8	10.571	98	178867	29.681	ug/l	0.00
Spiked Amount 30.000	Range	91 - 112	Recovery	=	98.933%	
Target Compounds						
					Qvalue	
2) Dichlorodifluoromethane	2.130	85	30213	20.577	ug/l	98
3) Chloromethane	2.365	50	31851	21.633	ug/l	93
4) Vinyl Chloride	2.512	62	32015	21.978	ug/l	95
5) Bromomethane	2.948	94	21295	23.819	ug/l	99
6) Chloroethane	3.118	64	22135	24.812	ug/l	95
7) Trichlorofluoromethane	3.495	101	45078	25.994	ug/l	96
8) Diethyl Ether	3.959	74	17964	28.252	ug/l	99
9) 1,1,2-Trichlorotrifluo...	4.371	101	26215	27.431	ug/l	97
10) 1,1-Dichloroethene	4.342	96	24501	26.459	ug/l	98
11) Methyl Iodide	4.595	142	31146	26.702	ug/l	94
12) Methyl Acetate	5.036	43	72690	33.684	ug/l	96
13) Acrolein	4.183	56	17638	89.741	ug/l	94
14) Acrylonitrile	5.730	53	88015	139.019	ug/l	99
15) Acetone	4.436	58	23893	144.669	ug/l	95
16) Carbon Disulfide	4.718	76	74038	27.059	ug/l	99
17) Allyl chloride	5.024	41	47487	31.914	ug/l	91
18) Methylene Chloride	5.283	84	36290	29.219	ug/l	97
19) trans-1,2-Dichloroethene	5.789	96	30857	26.634	ug/l	96
20) Diisopropyl ether	6.683	45	102029	22.969	ug/l	95
21) 1,1-Dichloroethane	6.571	63	60544	23.266	ug/l	97
22) cis-1,2-Dichloroethene	7.494	96	38214	21.091	ug/l	97
23) tert-Butyl Alcohol	5.542	59	31558	129.573	ug/l #	100
24) Methyl tert-Butyl Ether	5.806	73	101868	27.874	ug/l	98
25) Chloroform	7.971	83	62728	19.990	ug/l	100
26) Cyclohexane	8.265	56	43698	18.518	ug/l #	98
29) 1,1-Dichloropropene	8.377	75	44914	19.866	ug/l	98
30) 2-Butanone	7.494	43	115529	101.596	ug/l	97
31) 2,2-Dichloropropane	7.489	77	48767	21.625	ug/l	99
32) 1,1,1-Trichloroethane	8.171	97	53255	19.994	ug/l	99
33) Carbon Tetrachloride	8.371	117	46037	20.121	ug/l	98
34) Benzene	8.612	78	140156	19.512	ug/l	98
35) Methacrylonitrile	7.783	41	23716	19.370	ug/l	92
36) 1,2-Dichloroethane	8.677	62	46235	19.517	ug/l	100
37) Trichloroethene	9.359	130	34118	20.095	ug/l	95
38) Methylcyclohexane	9.606	83	42973	19.013	ug/l	99
39) 1,2-Dichloropropane	9.624	63	36660	19.786	ug/l	96
40) Dibromomethane	9.712	93	24966	20.432	ug/l	97
41) Bromodichloromethane	9.894	83	51373	21.091	ug/l	93
42) Vinyl Acetate	6.612	43	313324	116.021	ug/l	100

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Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
43) Ethyl Acetate	7.565	43	44342	20.532	ug/l	98
44) Isopropyl Acetate	8.694	43	73604	18.946	ug/l	99
45) 1,4-Dioxane	9.700	88	15718	406.455	ug/l	92
46) Methyl methacrylate	9.688	41	33233	19.147	ug/l	97
47) n-amyl Acetate	12.500	43	56512	20.683	ug/l	98
48) t-1,3-Dichloropropene	10.841	75	52497	19.921	ug/l	94
49) cis-1,3-Dichloropropene	10.318	75	58495	21.281	ug/l	97
50) 1,1,2-Trichloroethane	11.024	97	35693	20.822	ug/l	97
51) Ethyl methacrylate	10.882	69	53989	20.394	ug/l	92
52) 1,3-Dichloropropane	11.171	76	61095	20.877	ug/l	99
53) Dibromochloromethane	11.365	129	38356	21.334	ug/l	99
54) 1,2-Dibromoethane	11.476	107	36167	20.778	ug/l	97
55) 2-Chloroethyl vinyl ether	10.165	63	103898	110.452	ug/l	99
56) Bromoform	12.582	173	27717	22.124	ug/l	100
58) 4-Methyl-2-Pentanone	10.453	43	230199	97.280	ug/l	99
59) 2-Hexanone	11.200	43	168330	101.290	ug/l	98
61) Tetrachloroethene	11.112	164	28554	20.350	ug/l	93
62) Toluene	10.635	91	150258	20.012	ug/l	99
64) Chlorobenzene	11.894	112	90139	20.579	ug/l	99
65) 1,1,1,2-Tetrachloroethane	11.965	131	35075	20.916	ug/l	99
66) Ethyl Benzene	11.971	91	157224	20.797	ug/l	99
67) m/p-Xylenes	12.076	106	118887	41.795	ug/l	100
68) o-Xylene	12.406	106	58030	21.153	ug/l	99
69) Styrene	12.418	104	95562	21.840	ug/l	100
70) Isopropylbenzene	12.700	105	154889	22.213	ug/l	99
71) 1,1,2,2-Tetrachloroethane	12.941	83	55715	21.359	ug/l	100
72) 1,2,3-Trichloropropane	13.000	75	35081m	15.984	ug/l	
73) Bromobenzene	12.988	156	36731	21.088	ug/l	97
74) n-propylbenzene	13.041	91	163562	20.587	ug/l	99
75) 2-Chlorotoluene	13.129	91	104758	20.563	ug/l	99
76) 1,3,5-Trimethylbenzene	13.176	105	120052	20.822	ug/l	99
77) t-1,4-Dichloro-2-butene	12.741	75	17330	22.427	ug/l	94
78) 4-Chlorotoluene	13.229	91	100364	20.864	ug/l	98
79) tert-butylbenzene	13.441	119	101290	21.403	ug/l	99
80) 1,2,4-Trimethylbenzene	13.488	105	119034	21.618	ug/l	99
81) sec-Butylbenzene	13.623	105	133510	20.619	ug/l	98
82) p-Isopropyltoluene	13.735	119	110810	21.665	ug/l	99
83) 1,3-Dichlorobenzene	13.735	146	59587	21.541	ug/l	99
84) 1,4-Dichlorobenzene	13.818	146	55043	21.217	ug/l	98
85) n-Butylbenzene	14.059	91	80979	20.788	ug/l	98
86) Hexachloroethane	14.341	117	21404	21.136	ug/l	94
87) 1,2-Dichlorobenzene	14.112	146	59854	21.925	ug/l	99
88) 1,2-Dibromo-3-Chloropr...	14.723	75	9175	20.809	ug/l	98
89) 1,2,4-Trichlorobenzene	15.847	180	23921	20.477	ug/l	99
90) Hexachlorobutadiene	15.506	225	14973	21.102	ug/l	98
91) Naphthalene	15.647	128	56977	18.665	ug/l #	93
92) 1,2,3-Trichlorobenzene	15.847	180	23921	20.477	ug/l	99

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

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