

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN083023\
 Data File : VN079111.D
 Acq On : 30 Aug 2023 12:34
 Operator : JC\MD
 Sample : VN0830WBSD01
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 4 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 VN0830WBSD01

Manual Integrations
 APPROVED

Reviewed By : John Carlone 08/31/2023
 Supervised By : Mahesh Dadoda 09/01/2023

Quant Time: Aug 31 02:15:09 2023
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\624N081723W.M
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
 QLast Update : Fri Aug 18 05:21:14 2023
 Response via : Initial Calibration

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

Internal Standards						
1) Bromochloromethane	7.818	128	37080	30.000	ug/l	0.00
28) 1,4-Difluorobenzene	9.106	114	195137	30.000	ug/l	0.00
57) Chlorobenzene-d5	11.871	117	178883	30.000	ug/l	0.00
System Monitoring Compounds						
27) 1,2-Dichloroethane-d4	8.582	65	91382	30.420	ug/l	0.00
Spiked Amount	30.000	Range	91 - 110	Recovery	= 101.400%	
60) 4-Bromofluorobenzene	12.853	95	79174	30.342	ug/l	0.00
Spiked Amount	30.000	Range	63 - 112	Recovery	= 101.133%	
63) Toluene-d8	10.571	98	256876	30.750	ug/l	0.00
Spiked Amount	30.000	Range	91 - 112	Recovery	= 102.500%	
Target Compounds						Qvalue
2) Dichlorodifluoromethane	2.124	85	43663	18.661	ug/l	93
3) Chloromethane	2.365	50	52565	18.746	ug/l	96
4) Vinyl Chloride	2.512	62	54157	19.513	ug/l	92
5) Bromomethane	2.948	94	35030	20.448	ug/l	96
6) Chloroethane	3.118	64	38261	21.214	ug/l	94
7) Trichlorofluoromethane	3.495	101	74256	19.865	ug/l	100
8) Diethyl Ether	3.971	74	26840	19.091	ug/l	99
9) 1,1,2-Trichlorotrifluo...	4.377	101	39028	19.991	ug/l	89
10) 1,1-Dichloroethene	4.342	96	36884	18.780	ug/l #	83
11) Methyl Iodide	4.589	142	46691	19.700	ug/l	92
12) Methyl Acetate	5.030	43	97885	21.262	ug/l	95
13) Acrolein	4.189	56	27853	86.803	ug/l	94
14) Acrylonitrile	5.730	53	128764	106.401	ug/l #	93
15) Acetone	4.424	58	35450	95.493	ug/l	70
16) Carbon Disulfide	4.712	76	96881	17.167	ug/l	96
17) Allyl chloride	5.030	41	65255	18.127	ug/l	89
18) Methylene Chloride	5.277	84	47625	20.283	ug/l	91
19) trans-1,2-Dichloroethene	5.794	96	41009	18.552	ug/l	93
20) Diisopropyl ether	6.683	45	154349	19.711	ug/l	91
21) 1,1-Dichloroethane	6.577	63	84292	19.399	ug/l	94
22) cis-1,2-Dichloroethene	7.488	96	49058	19.391	ug/l	98
23) tert-Butyl Alcohol	5.524	59	41986	93.010	ug/l #	100
24) Methyl tert-Butyl Ether	5.800	73	134282	19.260	ug/l	99
25) Chloroform	7.971	83	87784	20.054	ug/l	98
26) Cyclohexane	8.265	56	58670	18.458	ug/l #	99
29) 1,1-Dichloropropene	8.377	75	61853	20.837	ug/l	98
30) 2-Butanone	7.494	43	177153	101.943	ug/l	100
31) 2,2-Dichloropropane	7.494	77	66785	20.357	ug/l	99
32) 1,1,1-Trichloroethane	8.171	97	73883	20.847	ug/l	98
33) Carbon Tetrachloride	8.365	117	63669	20.740	ug/l	95
34) Benzene	8.606	78	182138	20.475	ug/l #	93
35) Methacrylonitrile	7.788	41	42503	22.948	ug/l	96
36) 1,2-Dichloroethane	8.677	62	71466	21.453	ug/l	97
37) Trichloroethene	9.359	130	43512	19.650	ug/l	81
38) Methylcyclohexane	9.606	83	54287	20.772	ug/l	97
39) 1,2-Dichloropropane	9.629	63	51400	21.451	ug/l	95
40) Dibromomethane	9.718	93	34485	21.470	ug/l	96
41) Bromodichloromethane	9.894	83	68994	21.360	ug/l	96
42) Vinyl Acetate	6.612	43	500247	102.101	ug/l	99

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Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
43) Ethyl Acetate	7.565	43	75410	22.368	ug/l	96
44) Isopropyl Acetate	8.694	43	125175	21.072	ug/l	98
45) 1,4-Dioxane	9.700	88	20145	450.650	ug/l	100
46) Methyl methacrylate	9.688	41	57920	22.130	ug/l	96
47) n-amyl Acetate	12.500	43	91001	19.963	ug/l	95
48) t-1,3-Dichloropropene	10.841	75	70780	20.575	ug/l	96
49) cis-1,3-Dichloropropene	10.318	75	78325	21.233	ug/l	96
50) 1,1,2-Trichloroethane	11.024	97	47815	22.029	ug/l	94
51) Ethyl methacrylate	10.882	69	68084	20.266	ug/l	98
52) 1,3-Dichloropropane	11.165	76	86985	22.375	ug/l	98
53) Dibromochloromethane	11.365	129	50660	21.325	ug/l	96
54) 1,2-Dibromoethane	11.476	107	48029	21.553	ug/l	98
55) 2-Chloroethyl vinyl ether	10.165	63	161784	104.189	ug/l	97
56) Bromoform	12.582	173	33269	19.849	ug/l #	92
58) 4-Methyl-2-Pentanone	10.453	43	377723	106.428	ug/l	99
59) 2-Hexanone	11.200	43	270685	104.095	ug/l	99
61) Tetrachloroethene	11.112	164	36810	21.252	ug/l	97
62) Toluene	10.635	91	196189	20.089	ug/l	96
64) Chlorobenzene	11.894	112	120905	20.590	ug/l	95
65) 1,1,1,2-Tetrachloroethane	11.965	131	46608	20.759	ug/l	97
66) Ethyl Benzene	11.970	91	205182	20.085	ug/l	96
67) m/p-Xylenes	12.076	106	159080	41.765	ug/l	98
68) o-Xylene	12.406	106	74578	19.858	ug/l	98
69) Styrene	12.418	104	124709	20.436	ug/l	98
70) Isopropylbenzene	12.700	105	189318	20.805	ug/l	98
71) 1,1,2,2-Tetrachloroethane	12.941	83	76678	22.478	ug/l	98
72) 1,2,3-Trichloropropane	13.000	75	50117m	17.909	ug/l	
73) Bromobenzene	12.988	156	47795	20.631	ug/l	98
74) n-propylbenzene	13.041	91	217876	21.127	ug/l	99
75) 2-Chlorotoluene	13.129	91	136052	20.795	ug/l	98
76) 1,3,5-Trimethylbenzene	13.176	105	156222	21.657	ug/l	99
77) t-1,4-Dichloro-2-butene	12.741	75	20222	19.445	ug/l	91
78) 4-Chlorotoluene	13.229	91	131679	21.009	ug/l	99
79) tert-butylbenzene	13.441	119	128475	21.077	ug/l	97
80) 1,2,4-Trimethylbenzene	13.488	105	157467	22.201	ug/l	99
81) sec-Butylbenzene	13.623	105	173983	21.627	ug/l	98
82) p-Isopropyltoluene	13.735	119	143082	21.785	ug/l	97
83) 1,3-Dichlorobenzene	13.741	146	80959	21.655	ug/l	96
84) 1,4-Dichlorobenzene	13.817	146	74501	20.297	ug/l	98
85) n-Butylbenzene	14.064	91	107509	20.812	ug/l	99
86) Hexachloroethane	14.335	117	29030	21.601	ug/l	95
87) 1,2-Dichlorobenzene	14.112	146	80516	21.027	ug/l	98
88) 1,2-Dibromo-3-Chloropr...	14.723	75	13629	22.260	ug/l	98
89) 1,2,4-Trichlorobenzene	15.847	180	29045	19.206	ug/l	98
90) Hexachlorobutadiene	15.506	225	16373	20.795	ug/l	97
91) Naphthalene	15.647	128	71192	16.322	ug/l #	94
92) 1,2,3-Trichlorobenzene	15.847	180	29045	19.206	ug/l	98

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

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