

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN083023\
 Data File : VN079110.D
 Acq On : 30 Aug 2023 12:00
 Operator : JC\MD
 Sample : VN0830WBS01
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 3 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 VN0830WBS01

Manual Integrations
 APPROVED

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

Quant Time: Aug 31 02:14:40 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	37786	30.000	ug/l	0.00
28) 1,4-Difluorobenzene	9.106	114	202023	30.000	ug/l	0.00
57) Chlorobenzene-d5	11.871	117	185004	30.000	ug/l	0.00
System Monitoring Compounds						
27) 1,2-Dichloroethane-d4	8.588	65	93506	30.545	ug/l	0.00
Spiked Amount 30.000	Range 91 - 110		Recovery = 101.833%			
60) 4-Bromofluorobenzene	12.853	95	80652	29.886	ug/l	0.00
Spiked Amount 30.000	Range 63 - 112		Recovery = 99.633%			
63) Toluene-d8	10.571	98	272633	31.557	ug/l	0.00
Spiked Amount 30.000	Range 91 - 112		Recovery = 105.200%			
Target Compounds						
					Qvalue	
2) Dichlorodifluoromethane	2.124	85	47855	20.070	ug/l	98
3) Chloromethane	2.365	50	56563	19.794	ug/l	98
4) Vinyl Chloride	2.512	62	57409	20.299	ug/l	96
5) Bromomethane	2.948	94	38016	21.776	ug/l	90
6) Chloroethane	3.118	64	42179	22.950	ug/l	95
7) Trichlorofluoromethane	3.495	101	76137	19.988	ug/l	100
8) Diethyl Ether	3.959	74	26196	18.285	ug/l	100
9) 1,1,2-Trichlorotrifluo...	4.365	101	41765	20.993	ug/l	89
10) 1,1-Dichloroethene	4.336	96	37540	18.756	ug/l	94
11) Methyl Iodide	4.583	142	46842	19.395	ug/l	97
12) Methyl Acetate	5.030	43	94762	20.199	ug/l	97
13) Acrolein	4.183	56	26163	80.013	ug/l	94
14) Acrylonitrile	5.730	53	124496	100.952	ug/l	97
15) Acetone	4.436	58	37394	98.848	ug/l	96
16) Carbon Disulfide	4.712	76	103420	17.984	ug/l	97
17) Allyl chloride	5.024	41	74512	20.312	ug/l	96
18) Methylene Chloride	5.277	84	47489	19.848	ug/l #	84
19) trans-1,2-Dichloroethene	5.789	96	43003	19.090	ug/l	83
20) Diisopropyl ether	6.677	45	158139	19.817	ug/l #	86
21) 1,1-Dichloroethane	6.571	63	88450	19.975	ug/l	91
22) cis-1,2-Dichloroethene	7.494	96	51712	20.058	ug/l	97
23) tert-Butyl Alcohol	5.536	59	45223	98.309	ug/l #	100
24) Methyl tert-Butyl Ether	5.800	73	135686	19.098	ug/l	99
25) Chloroform	7.971	83	89795	20.130	ug/l	93
26) Cyclohexane	8.259	56	64484	19.908	ug/l #	97
29) 1,1-Dichloropropene	8.383	75	64049	20.841	ug/l	98
30) 2-Butanone	7.489	43	184368	102.478	ug/l	100
31) 2,2-Dichloropropane	7.489	77	71339	21.004	ug/l	99
32) 1,1,1-Trichloroethane	8.177	97	74951	20.428	ug/l	96
33) Carbon Tetrachloride	8.365	117	65812	20.708	ug/l #	80
34) Benzene	8.612	78	195685	21.248	ug/l	98
35) Methacrylonitrile	7.788	41	39780	20.746	ug/l	94
36) 1,2-Dichloroethane	8.677	62	73511	21.315	ug/l	97
37) Trichloroethene	9.359	130	46418	20.248	ug/l	91
38) Methylcyclohexane	9.606	83	55393	20.473	ug/l	98
39) 1,2-Dichloropropane	9.624	63	51840	20.897	ug/l	90
40) Dibromomethane	9.712	93	35803	21.531	ug/l	93
41) Bromodichloromethane	9.894	83	71735	21.452	ug/l #	93
42) Vinyl Acetate	6.606	43	498629	98.302	ug/l	99

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Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
43) Ethyl Acetate	7.571	43	61530	17.629	ug/l #	86
44) Isopropyl Acetate	8.694	43	122603	19.936	ug/l	99
45) 1,4-Dioxane	9.694	88	19003	410.614	ug/l	92
46) Methyl methacrylate	9.688	41	55401	20.446	ug/l	93
47) n-amyl Acetate	12.500	43	90463	19.168	ug/l	94
48) t-1,3-Dichloropropene	10.841	75	73778	20.715	ug/l	89
49) cis-1,3-Dichloropropene	10.318	75	78538	20.565	ug/l	99
50) 1,1,2-Trichloroethane	11.018	97	49615	22.079	ug/l	95
51) Ethyl methacrylate	10.877	69	69042	19.851	ug/l	94
52) 1,3-Dichloropropane	11.171	76	84802	21.070	ug/l	98
53) Dibromochloromethane	11.365	129	51426	20.910	ug/l	98
54) 1,2-Dibromoethane	11.471	107	48030	20.819	ug/l	93
55) 2-Chloroethyl vinyl ether	10.165	63	167102	103.946	ug/l	97
56) Bromoform	12.582	173	35454	20.432	ug/l #	98
58) 4-Methyl-2-Pentanone	10.453	43	375626	102.335	ug/l	99
59) 2-Hexanone	11.200	43	272017	101.146	ug/l	99
61) Tetrachloroethene	11.106	164	37555	20.965	ug/l	93
62) Toluene	10.635	91	211741	20.964	ug/l	99
64) Chlorobenzene	11.894	112	123533	20.342	ug/l #	85
65) 1,1,1,2-Tetrachloroethane	11.965	131	47743	20.561	ug/l	98
66) Ethyl Benzene	11.971	91	211607	20.029	ug/l	99
67) m/p-Xylenes	12.076	106	166069	42.158	ug/l	100
68) o-Xylene	12.406	106	80389	20.697	ug/l	99
69) Styrene	12.418	104	129544	20.526	ug/l	97
70) Isopropylbenzene	12.700	105	200723	21.328	ug/l	97
71) 1,1,2,2-Tetrachloroethane	12.941	83	74916	21.235	ug/l	100
72) 1,2,3-Trichloropropane	13.000	75	50830m	17.562	ug/l	
73) Bromobenzene	12.982	156	49565	20.687	ug/l	98
74) n-propylbenzene	13.041	91	230638	21.624	ug/l	100
75) 2-Chlorotoluene	13.129	91	146466	21.646	ug/l	98
76) 1,3,5-Trimethylbenzene	13.176	105	164855	22.098	ug/l	98
77) t-1,4-Dichloro-2-butene	12.741	75	21499	19.989	ug/l	85
78) 4-Chlorotoluene	13.223	91	138163	21.314	ug/l	100
79) tert-butylbenzene	13.441	119	128776	20.427	ug/l	99
80) 1,2,4-Trimethylbenzene	13.488	105	164634	22.443	ug/l	100
81) sec-Butylbenzene	13.623	105	183676	22.077	ug/l	98
82) p-Isopropyltoluene	13.735	119	150276	22.123	ug/l	99
83) 1,3-Dichlorobenzene	13.741	146	84486	21.850	ug/l	96
84) 1,4-Dichlorobenzene	13.818	146	77055	20.298	ug/l	98
85) n-Butylbenzene	14.065	91	114262	21.387	ug/l	98
86) Hexachloroethane	14.341	117	31935	22.977	ug/l	87
87) 1,2-Dichlorobenzene	14.112	146	84171	21.254	ug/l	99
88) 1,2-Dibromo-3-Chloropr...	14.723	75	12419	19.613	ug/l	93
89) 1,2,4-Trichlorobenzene	15.853	180	29235	18.692	ug/l	98
90) Hexachlorobutadiene	15.506	225	16568	20.347	ug/l	92
91) Naphthalene	15.641	128	71668	15.887	ug/l	99
92) 1,2,3-Trichlorobenzene	15.853	180	29235	18.692	ug/l	98

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

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